AGENDA

FOR THE REGULAR MEETING OF THE
PLANNING COMMISSION
April 13, 2020
6:00 p.m.

VIA TELECONFERENCE
Council Chambers
11710 Telegraph Road
Santa Fe Springs, CA 90670

Frank Ybarra, Chairperson
Ken Arnold, Vice Chairperson
Ralph Aranda, Commissioner
Francis Carbajal, Commissioner
Gabriel Jimenez, Commissioner

*****GOVERNOR'S EXECUTIVE ORDER N-29-20*****
****REGARDING CORNOVIRUS COVID-19****

On March 4, 2020, Governor Newsom proclaimed a State of Emergency to exist in California as a result of the threat of COVID-19. The Governor has issued Executive Orders that temporarily suspend requirements of the Brown Act, including allowing the Planning Commission to hold public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise electronically to all members of the public.

You may attend the Planning Commission meeting telephonically or electronically using the following means:

Electronically using Zoom
Go to Zoom.us and click on "Join A Meeting" or use the following link:
https://zoom.us/j/558333944?pwd=b0FqbkV2aDZneVRnQ3BjYU12SmJlQT09

Zoom Meeting ID: 558 333 944
Password: 554545

Telephonically
Dial: 888-475-4499
Meeting ID: 558 333 944

PUBLIC COMMENTS may be submitted in writing to the Planning Secretary at teresacavallo@santafesprings.org. Please submit your written comments by 4:00 p.m. on the day of the Planning Commission meeting. You may also contact the Planning Department at (562) 868-0511 ext. 7550.

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL
Commissioners Aranda, Arnold, Carbajal, Jimenez, and Ybarra.

4. ORAL COMMUNICATIONS
This is the time for public comment on any matter that is not on today's agenda. Anyone wishing to speak on an agenda item is asked to please comment at the time the item is considered by the Planning Commission.

5. MINUTES
Approval of the minutes for the March 9, 2020 Planning Commission meeting

6. PUBLIC HEARING – Continued from the March 9, 2020 Planning Commission Meeting
Categorical Exempt – CEQA Guidelines Section 15301, Class 1
Development Plan Approval (DPA) Case No. 969
Modification Permit (MOD) Case No. 1321
Modification Permit (MOD) Case No. 1322
DPA Case No 969: A request for approval to construct 19 new steel tanks, a new pipe bridge, and a new utility; and

MOD Case No. 1321: A request to replace a portion of the required front yard landscape strip with 8 new standard parking stalls; and

MOD Case No. 1322: A request to not provide full screening of the proposed tanks from the public right-of-way (Emmens Way).

The project site is located at 10747 Patterson Place (APN: 8011-017-054), within the M-2, Heavy Manufacturing, Zone. (Brenntag Pacific, Inc.)

7. PUBLIC HEARING
Categorically Exempt - CEQA Guidelines Class 1 and Class 3
Amendment of Conditional Use Permit (CUP) Case No. 781
A request for approval to modify the number of clients, hours of operation, and to allow occasional tournaments for an existing soccer training facility located at 13045 Los Nietos Road (APN: 8167-005-026), within the M-2, Heavy Manufacturing, Zone. (Ballmaster Elite Soccer Academy)

8. PUBLIC HEARING
Adoption of Mitigated Negative Declaration
Development Plan Approval Case No. 971
Amendment of Conditional Use Permit Case No. 780

Modification Permit Case No. 1325
Development Plan Approval Case No. 971: A request to demolish nine (9) existing single-story mini-warehouse buildings and replace them with a three-story, 97,503 sq. ft. mini-warehouse building.
Amendment of Conditional Use Permit Case No. 780: A request to amend the November 13, 2017 approval to increase the mini-warehouse facility use from 90,410 sq. ft. to 102,454 sq. ft.
Modification Permit Case No. 1325: A request to allow a 3'-5" projection into the required setbacks.

The project site is located at 13020 Telegraph Road (APN: 8011-014-017), within the M-2, Heavy Manufacturing Zone and within the Telegraph Road Corridor.
(Ojai Oil Company dba Golden State Storage)

9. PUBLIC HEARING

Exemption – CEQA Guidelines §15061(b)(3) - *Activities Covered by General Rule*
General Plan Amendment No. 29
A request for approval to amend the Land Use Element of the City's General Plan, to correct a typographical error related to the maximum building coverage for all properties designated as Business Park. (City of Santa Fe Springs)

10. PUBLIC HEARING

Adoption of Mitigated Negative Declaration
Tentative Parcel Map (TPM) No. 82433
Development Plan Approval (DPA) Case Nos. 947-949
TPM No. 82433: A request for approval to subdivide the subject ±9.06-acres gross (±8.34-acres net) parcel at 9920 Pioneer Boulevard (APN: 8055-010-011) into two separate parcels measuring 5.08-acres and 3.26-acres, respectively;

DPA Case Nos. 947-949: DPA Case No. 947 - a request for approval to allow the construction of an approximately 103,950 sq. ft. concrete tilt-up industrial building (Building 1), DPA Case No. 947 - a request for approval to allow the construction of an approximately 28,146 sq. ft. concrete tilt-up industrial building (Building 2); and DPA Case No. 947 - a request for approval to allow the construction of a 31,422 sq. ft. concrete tilt-up industrial building (Building 3) on property located at 9920 Pioneer Boulevard (APN: 8055-010-011), within the M-L (Limited Manufacturing) Zone;
(The Brookhollow Group)

11. CONSENT ITEMS

Consent Agenda items are considered routine matters which may be enacted by one motion and roll call vote. Any item may be removed from the Consent Agenda and considered separately by the Planning Commission.

A. CONSENT ITEM

Development Plan Approval Case Nos. 930, 931, 932, and 933

A request for a time extension of Development Plan Approval (DPA) Case Nos 930 - 933 to allow the construction of four (4) new concrete tilt-up industrial buildings, ranging from 58,463 sq. ft. to 121, 124 sq. ft., located on the northwest corner of Telegraph Road and Santa Fe Springs Road.

B. CONSENT ITEM

Alcohol Sales Conditional Use Permit Case No. 14

Compliance review of Alcohol Sales Conditional Use Permit Case No. 14 to allow the continued operation and maintenance of an alcoholic beverage sales use for off-site consumption by El Super, Inc. located at 10531 Carmenita Road and within the Gateway Plaza shopping center. (El Super)

C. CONSENT ITEM

Alcohol Sales Conditional Use Permit Case No. 43

Compliance review of Alcohol Sales Conditional Use Permit Case No. 43 to allow the continued operation and maintenance of an alcoholic beverage sales use for on-site consumption by Mariscos Sol Y Mar Restaurant located at 8021 Norwalk Boulevard, within the Cefalia Center in the Community Commercial (C-4) Zone. (Ramona Valdez, Mariscos Sol Y Mar Restaurant)

D. CONSENT ITEM

Alcohol Sales Conditional Use Permit Case No. 76

Compliance Review Report for Alcohol Sales Conditional Use Permit Case No. 76 to allow the continued operation and maintenance of an alcoholic beverage use involving the warehousing and distribution of alcoholic beverages at Harbor Distributing located at 11204 Norwalk Boulevard within the Heavy Manufacturing (M-2). (Harbor Distributing, LLC)

12. ANNOUNCEMENTS

- Commissioners
- Staff

13. ADJOURNMENT

I hereby certify under penalty of perjury under the laws of the State of California, that the foregoing agenda has been posted at the following locations; 1) City Hall, 11710 Telegraph Road; 2) City Library, 11700 Telegraph Road; and 3) Town Center Plaza (Kiosk), 11740 Telegraph Road, not less than 72 hours prior to the meeting.

Teresa Cavallo

Planning Secretary

April 8, 2020

Date

APPROVED:

MINUTES OF THE REGULAR MEETING OF THE SANTA FE SPRINGS PLANNING COMMISSION

March 9, 2020

1. CALL TO ORDER

Chair Ybarra called the meeting to order at 6:01 p.m.

2. PLEDGE OF ALLEGIANCE

Chair Ybarra called upon Commissioner Carbajal to lead everyone in the Pledge of Allegiance.

3. ROLL CALL

Members present: Chairperson Ybarra
Vice Chairperson Arnold
Commissioner Aranda
Commissioner Carbajal
Commissioner Jimenez

Staff: Richard L. Adams II, City Attorney
Wayne Morrell, Director of Planning
Cuong Nguyen, Senior Planner
Vince Velasco, Associate Planner
Jimmy Wong, Associate Planner
Teresa Cavallo, Planning Secretary

Council: None

Members absent: None

4. ORAL COMMUNICATIONS

None

5. MINUTES

Approval of the minutes for the February 12, 2020 Planning Commission meeting

It was moved by Vice-Chair Arnold, seconded by Commissioner Aranda to approve the minutes as submitted, with the following vote:

Ayes: Arnold, Aranda, Carbajal, Jimenez, and Ybarra
Nays: None
Absent: None

PUBLIC HEARING

6. PUBLIC HEARING

Categorical Exempt – CEQA Guidelines Section 15321, Class 21
Revocation of Conditional Use Permit Case No. 724

Recommendation: That the Planning Commission:

- Open the Public Hearing and receive any comments from the public regarding the Revocation of Conditional Use Permit Case No. 724 and, thereafter, close the Public Hearing; and
- Find that pursuant to Section 15321, Class 21 (Enforcement Actions), of the California Environmental Quality Act (CEQA), this project is Categorically Exempt; and
- Find that the aluminum foundry facility, for which Conditional Use Permit Case No. 724 was granted, is being exercised contrary to the conditions of approval.
- Determine one (1) of the following actions:
  a. Revoke and nullify Conditional Use Permit Case No. 724;
  b. Revoke and nullify Conditional Use Permit Case No. 724, stay enforcement for a period of 60 days from the date of revocation;
  c. Revoke and nullify Conditional Use Permit Case No. 724, stay enforcement for a period of ____ days from the date of revocation.
- Adopt Resolution No. 156-2020, which incorporates the Commission's findings and actions regarding this matter, should the Planning Commission decide to move forward with revoking the subject Conditional Use Permit.

Chair Ybarra called upon Associate Planner Vince Velasco to present Item No. 6 before the Planning Commission. Present in the audience was Mr. Peter Lake.

Chair Ybarra called upon the Commissioners for questions and/or comments.

There being no questions, Chair Ybarra opened the Public Hearing at 6:08 p.m. and asked if the Applicant would like to approach the podium to address the Planning Commission. The Applicant Mr. Peter Lake approached the podium and addressed the Planning Commission. Mr. Lake stated his reasons why the Planning Commission should vote against the recommendation of revocation.

A discussion ensued regarding recommendations, upcoming General Plan changes, and CUP compliance.

Chair Ybarra asked if anyone from the audience wished to speak on Item 6. There being no one wishing to speak, Chair Ybarra closed the Public Hearing at 6:45 p.m. and requested a motion and second on Item No. 6:

It was moved by Commissioner Aranda, seconded by Commissioner Carbajal to revoke and nullify Conditional Use Permit 724, with a stay of enforcement for a period of 270 days from the date of revocation, and the recommendations regarding this matter, which passed by the following roll call vote:

Ayes: Arnold, Aranda, Carbajal, Jimenez, and Ybarra
Nays: None
Absent: None

City Attorney Richard Adams II read the City's appeal process to inform the Planning Commission and public.

7. PUBLIC HEARING

Categorical Exempt – CEQA Guidelines Section 15301, Class 1
Development Plan Approval (DPA) Case No. 969
Modification Permit (MOD) Case No. 1321
Modification Permit (MOD) Case No. 1322

Recommendation: That the Planning Commission:

- Continue Development Plan Approval Case No. 969, Modification Permit Case No. 1321, and Modification Permit Case No. 1322 to the Planning Commission meeting of April 13, 2020.

Chair Ybarra called upon the Commissioners for questions and/or comments. There being none, Chair Ybarra opened the Public Hearing at 6:45 p.m.

There being no one from the audience wishing to speak and the Planning Commissioners having no further questions, Chair Ybarra kept the Public Hearing open and requested a motion and second for Item No. 7.

It was moved by Commissioner Jimenez, seconded by Commissioner Carbajal to continue Development Plan Approval (DPA) Case No. 969, Modification Permit (MOD) Case No. 1321, and Modification Permit (MOD) Case No. 1322 to the April 13, 2020 Planning Commission meeting, which passed by the following roll call vote:

Ayes: Arnold, Aranda, Carbajal, Jimenez, and Ybarra
Nays: None
Absent: None

8. PUBLIC HEARING – Continued from the February 12, 2020 Planning Commission Meeting

Categorically Exempt – CEQA Guidelines Section 15282(h)
Zoning Text Amendment – Accessory Dwelling Unit

Recommendation: That the Planning Commission:

- Continue Zoning Text Amendment – Accessory Dwelling Unit to the Planning Commission meeting of May 11, 2020.

Chair Ybarra called upon the Commissioners for questions and/or comments. There being none, Chair Ybarra opened the Public Hearing at 6:48 p.m.

There being no one from the audience wishing to speak and the Planning Commissioners having no further questions, Chair Ybarra kept the Public Hearing open and requested a motion and second for Item No. 8.

It was moved by Vice-Chair Arnold, seconded by Commissioner Aranda to continue

Zoning Text Amendment – Accessory Dwelling Unit to the May 11, 2020 Planning Commission meeting, which passed by the following roll call vote:

Ayes: Arnold, Aranda, Carbajal, Jimenez, and Ybarra
Nays: None
Absent: None

CONSENT ITEMS

9. CONSENT ITEMS

Consent Agenda items are considered routine matters which may be enacted by one motion and roll call vote. Any item may be removed from the Consent Agenda and considered separately by the Planning Commission.

A. CONSENT ITEM

Conditional Use Permit Case No. 643-3

Recommendation: That the Planning Commission:

- Find that the continued operation and maintenance of a meat processing facility, if conducted in strict compliance with the conditions of approval, will be harmonious with adjoining properties and surrounding uses in the area and will be in conformance with the overall purposes and objectives of the Zoning Ordinance and consistent with the goals, policies, and programs of the City's General Plan.
- Require that Conditional Use Permit Case No. 643-3 be subject to a compliance review in ten (10) years, on or before March 9, 2030, to ensure the use is still operating in strict compliance with the conditions of approval as contained within this staff report.

B. CONSENT ITEM

Tentative Parcel Map No. 82031-1
Development Plan Approval Case No. 936-1
Conditional Use Permit Case No. 787-1

Recommendation: That the Planning Commission:

- Find and determine that granting an one (1) year time extension of Tentative Parcel Map Case No. 82031-1, Development Plan Approval No. 936-1, and Conditional Use Permit Case No. 787-1 will not be detrimental to persons or properties in the surrounding area or to the City in general, and will be in conformance with the overall purpose and objective of the Zoning Regulations and consistent with the goals, polies, and programs of the City's General Plan; and
- Approve an one (1) year time extension for Development Use Permit Case No. 936-1 (until March 11, 2021), subject to the original conditions of approval for Development Plan Approval 936; and
- Approve an one (1) year time extension for Tentative Parcel Map No.82031-1 (until March 11, 2021), subject to the original conditions of approval for Tentative Parcel Map No.82031; and
- Require that Conditional Use Permit Case No. 787-1 be subject to a compliance review in one (1) years, on or before, March 11, 2021, to ensure that the use is

still operating in strict compliance with the conditions of approval as contained within this staff report.

Chair Ybarra requested a motion regarding Item Nos. 10A-10C.

It was moved by Vice-Chair Arnold, seconded by Commissioner Jimenez to approve Consent Items No. 9A and 9B, and the recommendations regarding this matter, which passed by the following roll call vote:

Ayes: Arnold, Aranda, Carbajal, Jimenez, and Ybarra
Nays: None
Absent: None

10. PRESENTATION

A brief presentation on the 2020 Census

Senior Planner Cuong Nguyen presented the 2020 Census Presentation and invited everyone to be counted.

11. ANNOUNCEMENTS

Commissioners:
Commissioner Jimenez announced that his SFHS Freshman Baseball team is 6-0.

Staff:
Planning Secretary Teresa Cavallo announced that her youngest daughter Anissa will be 18 years old on March 11th.

Staff wished everyone a Happy St. Patrick's Day.

12. ADJOURNMENT

Chairperson Ybarra adjourned the meeting at 7:00 p.m. to the next regular Planning Commission meeting scheduled for April 13, 2020, at 6:00 p.m.

_____
Frank Ybarra
Chairperson

ATTEST:

_____ _____
Teresa Cavallo Date
Planning Secretary

PUBLIC HEARING – Continued from the March 9, 2020 Planning Commission Meeting
Categorical Exempt – CEQA Guidelines Section 15301, Class 1
Development Plan Approval (DPA) Case No. 969
Modification Permit (MOD) Case No. 1321
Modification Permit (MOD) Case No. 1322
DPA Case No 969: A request for approval to construct 19 new steel tanks, a new pipe bridge, and a new utility; and

MOD Case No. 1321: A request to replace a portion of the required front yard landscape strip with 8 new standard parking stalls; and

MOD Case No. 1322: A request to not provide full screening of the proposed tanks from the public right-of-way (Emmens Way).

The project site is located at 10747 Patterson Place (APN: 8011-017-054), within the M-2, Heavy Manufacturing, Zone. (Brenntag Pacific, Inc.)

RECOMMENDATION

- Continue Development Plan Approval Case No. 969, Modification Permit Case No. 1321, and Modification Permit Case No. 1322 to the Planning Commission meeting of May 11, 2020.

Property owners within 500 feet of the subject property were notified via mail that the requested entitlements were being presented before the Planning Commission for consideration. Since neighbors received notification, it is recommended that if any members of the public participate in the teleconference meeting and wish to comment, the Planning Commission should receive public comments no later than 4:00 pm on the day of the meeting, and then take action to continue the project to the next meeting date on May 11, 2020. The continuance will provide additional time for the applicant to modify their proposal and submit revised plans for Modification Permit Case No. 1321.

Wayne M. Morrell
Director of Planning

Report Submitted By: Vince Velasco
Planning and Development Dept.

Date of Report: April 8, 2020

ITEM NO. 6

PUBLIC HEARING

Categorically Exempt - CEQA Guidelines Class 1 and Class 3

Amendment of Conditional Use Permit (CUP) Case No. 781

A request for approval to modify the number of clients, to modify the hours of operation, and to allow occasional tournaments for an existing soccer training facility located at 13045 Los Nietos Road (APN: 8167-005-026), within the M-2, Heavy Manufacturing, Zone. (Ballmaster Elite Soccer Academy)

RECOMMENDATIONS:

- Open the Public Hearing and receive any comments from the public regarding Amendment of Conditional Use Permit Case No. 781, and thereafter, close the Public Hearing; and
- Find and determine that the proposed project will not be detrimental to persons or properties in the surrounding area or to the City in general, and will be in conformance with the overall purpose and objective of the Zoning Ordinance and consistent with the goals, policies and program of the City's General Plan; and
- Find that the applicant's CUP request meets the criteria set forth in §155.716 of the City's Zoning Ordinance, for the granting of a Conditional Use Permit; and
- Find and determine that pursuant to Section 15301, Class 1 (Existing Facilities), and Section 15303, Class 3 (New Construction or Conversion of Small Structures) of the California Environmental Quality Act (CEQA), the project is Categorically Exempt; and
- Approve Amendment of Conditional Use Permit Case No. 781, subject to the conditions of approval as contained within Resolution No. 161-2020; and
- Adopt Resolution No. 161-2020, which incorporates the Planning Commission's findings and actions regarding this matter.

GENERAL INFORMATION

A. Applicant: Ballmaster Elite Soccer Academy
13045 Los Nietos Road
Santa Fe Springs, CA 90670

B. Property Owner: Danny Samarin
603 Reposado Drive
La Habra Heights, CA 90631

Report Submitted By: Vince Velasco
Planning and Development Department

Date of Report: April 8, 2020

ITEM NO. 7

C.	Location of Proposal:	13045 Los Nietos Road Santa Fe Springs, CA 90670
D.	Existing Zone:	M-2 (Heavy Manufacturing)
E.	General Plan:	Industrial
F.	CEQA Status:	Categorically Exempt (Class 1 and 3)
G.	Staff Contact:	Vince Velasco, Associate Planner vincevelasco@santafesprings.org

LOCATION / BACKGROUND

The subject property, comprised of a single parcel (APN: 8167-005-026) of approximately 1.09 acres, has an address of 13045 Los Nietos Road and is located on the north side of Los Nietos Road, within the M-2, Heavy Manufacturing, Zone. Industrial uses surround the subject site on all sides.

On December 11, 2017, the Planning Commission initially approved Conditional Use Permit Case No. 781, a request to establish, operate and maintain a youth soccer training use. The initial approval was granted for a period of one year. The Planning Commission concurrently approved Modification Permit Case No. 1283 to allow for a reduction of twenty-one (21) required parking stalls and Modification Permit Case No. 1284 to allow for a reduction of the overall landscape area. This would have been their first compliance review; however, Ballmaster Elite Soccer Academy (BESA) has yet to begin operations. Nevertheless, they are requesting to amend the existing conditions of approval to modify the number of clients, to modify the hours of operation, and to allow occasional tournaments.

Since the original approval, the applicant has hired a new manager to run the day-to-day operations. After reviewing the conditions of approval with the new team, it was determined that the age of the clients and hours of operation would limit the economic growth of the business. The proposed changes to the operating hours will allow BESA to allocate an adequate number of hours to service both youth and adult residents. The previously approved hours, from 4:00 pm to 11:00 pm, are not feasible for the facility's new business model, now that the facility is planning to service both youths and adults. The additional operation hours during the day will allow adult trainees to practice, while the youths will be able to practice during after school hours. It should be noted that although the ages of clients have changed, the number of clients have since decreased per hour/session. By providing more sessions throughout the day, they are able to slightly decrease the number of clients for each session. Lastly, hosting occasional tournaments will allow the athletes to further develop their skills without creating an impact to the existing

parking conditions.

AMENDMENT OF CONDITIONAL USE PERMIT (ACUP 781)

Ballmaster Elite Soccer Academy is proposing to extend their weekday hours and slightly reduce their weekend hours. As previously mentioned, they intend to accommodate athletes of all ages by allowing adults to train during the day and youths to train in the evening hours. The previous approval limited the maximum capacity to 34 players and 5 employees at any given time. As proposed, the new schedule will see a maximum of 26 people at any given hour with 20 players 3 trainers, and 3 employees. This includes weekday and weekend hours. On tournament days, the subject property will see a maximum of 29 people at any game (total of 6 games) with 10 players, 2 coaches, and 1 referee using Building 2, 10 players, 2 coaches, and 1 referee using the Outdoor Field, and 3 employees. Lastly, as described below, BESA is proposing to make minor improvements to both the interior of Buildings 1 and 2, as well as, to the exterior of the subject property.

Hours of Operation:

Existing		**Proposed**	
Days	Time	Days	Time
Mon. – Fri.	4:00 pm -11:00 pm	Mon. – Fri.	9:00 am – 11:00 pm
Sat. – Sun.	8:00 am – 9:00 pm	Sat. – Sun.	9:00 am – 5:00 pm

Proposed Tournaments	
Saturdays and Sundays (Not to conflict with training)	
First Round	7:30 am – 8:10 am
	8:50 am – 9:30 am
	10:10 am – 10:50 am
	11:30 am – 12:10 pm
Semi Final	12:50 pm – 1:30 pm
Final	2:10 pm – 2:50 pm

Building 1:

Tenant improvements are proposed to the existing 5,330 sq. ft. building. BESA is proposing to decrease the office and storage areas to increase the indoor soccer field. Necessary walking circulation and restrooms will remain. Although the size of the indoor field will increase, this will not increase the number of players or trainers.

Building 2:

The applicant is proposing to decrease the area of the futsal field to provide an appropriate area for walking circulation and access to a new electrical closet. It should be noted that the previously identified indoor field within Building 2 will now

be known as a futsal field. Futsal is a condensed, sped up form of soccer that is usually played indoors on a basketball like court with five players to a side, hockey-sized goals, and a smaller low-bouncing ball.

Outdoor Field:
The size of the outdoor field will remain unchanged. Since the original approval, the applicant has found difficulties keeping the design of the outdoor field safe, while not putting an economic burden on the business operations. Nevertheless, the applicant is continuing to work with the Building Department to ensure that all materials and structural features meet the Building Code.

Parking:
The original CUP approval obtained in December 2017 identified that the subject property would require a total of 65 parking stalls; however, MOD 1283 allowed a total of 44 parking stalls to be provided. As a result, the deficiency was 21 parking stalls or 32% of the required number of parking stalls.

As proposed, no additional building square footage will be constructed and thus will not intensify the parking requirements. In addition, the minor alterations to Buildings 1 and 2 decreased the number of required parking stalls by 1 stall. As a result, 64 parking spaces is now required for the subject use. Furthermore, the applicant is proposing to provide two additional on-site parking stalls, totaling 46 parking stalls provided. Therefore, the deficiency has decreased by 3 parking stalls and brings the total deficiency to 18 parking stalls or 28% of the required number of parking stalls. Since the subject property decreased the deficiency and will provide a total of 46 parking stalls, there is no need to amend MOD 1283.

Existing Parking Requirements		
Space	Parking Ratio	Parking Required
Indoor Studio #1	1/250 sq. ft.	10
Indoor Studio #2	1/250 sq. ft.	16
Outdoor Turf Field	1/250 sq. ft.	34
Office Area	1/300 sq. ft.	2
Storage Area in bldg. #1	1/500 sq. ft.	3
Total Parking Required	65	
Total Parking Provided	44	

Proposed Parking Requirements		
Space	Parking Ratio	Parking Required
Training Field	1/250 sq. ft.	14 (+4)
Futsal Field	1/250 sq. ft.	13 (-3)
Outdoor Field	1/250 sq. ft.	34

Office Area	1/300 sq. ft.	1 (-1)
Storage Area in bldg. #1	1/500 sq. ft.	2 (-1)
Total Parking Required	64 (-1)	
Total Parking Provided	46 (+2)	

Landscaping:
As previously approved, the subject property provided a total of 3,749 sq. ft. of landscaping. The proposed project does not result in the intensification of the building area and thus does not require additional landscaping. It should be noted that the applicant slightly modified the parking configuration and as a result, will now provide a total of 3,990 sq. ft. of landscaping. Since the subject property is now providing more landscaping than required (3,935 sq. ft.), MOD 1284 is no longer needed.

Existing Landscaping Requirements	
Lineal Feet of Frontage	122.14 ft.
Landscaping Required	122.14 ft. x 25 = 3,054 sq. ft.
Landscaping Provided	2,529 sq. ft.
Parking Area	14,832 sq. ft.
Landscaping Required	14,832 sq. ft. x 6% = 890 sq. ft.
Landscaping Provided	1,220 sq. ft.
Overall Landscaping Required	3,944 sq. ft.
Overall Landscaping Provided	3,749 sq. ft.

Proposed Landscaping Requirements	
Lineal Feet of Frontage	122.14 ft.
Landscaping Required	122.14 ft. x 25 = 3,054 sq. ft.
Landscaping Provided	2,161 sq. ft. (-368 sq. ft.)
Parking Area	14,832 sq. ft.
Landscaping Required	14,832 sq. ft. x 6% = 890 sq. ft.
Landscaping Provided	1,829 sq. ft. (+609 sq. ft.)
Overall Landscaping Required	3,944 sq. ft.
Overall Landscaping Provided	3,990 sq. ft. (+241)

STREETS AND HIGHWAYS
The subject site is located on the north side of Los Nietos Road. Los Nietos Road is designated as a "Secondary Arterial", within the Circulation Element of the City's

General Plan.

ZONING AND LAND USE

The subject property is zoned M-2 (Heavy Manufacturing). The property has a General Plan Land Use designation of Industrial. The zoning, General Plan and land use of the surrounding properties are listed on the following page:

Surrounding Zoning, General Plan Designation, Land Use			
Direction	**Zoning District**	**General Plan**	**Land Use (Address/Business Name)**
North	M-2, Heavy Manufacturing, Zone	Industrial	Safety Equipment Supplier (10051 Painter Ave/ABATIX)
South	M-2, Heavy Manufacturing, Zone	Industrial	Auto Repair Shop (13028 Los Nietos Rd./Star Auto Care)
East	M-2-BP, Heavy Manufacturing – Buffer Parking, Zone	Industrial	Warehouse/Distribution (10155 Painter Ave/Hong Chang)
West	M-2, Heavy Manufacturing, Zone	Industrial	Embroidery Service (13031 Los Nietos Rd/KTS Custom Embroidery)

LEGAL NOTICE OF PUBLIC HEARING

This matter was set for Public Hearing in accordance with the requirements of Sections 65090 through 65096 of the State Planning, Zoning and Development Laws and the requirements of Sections 155.860 through 155.864 of the City's Municipal Code.

Legal notice of the Public Hearing for the proposed project was sent by first class mail to all property owners whose names and addresses appear on the latest County Assessor's Roll within 500 feet of the exterior boundaries of the subject property on April 1, 2020. The legal notice was also posted at the City's Town Center kiosk on April 1, 2020, and published in a newspaper of general circulation (Whittier Daily News) April 2, 2020, as required by the State Zoning and Development Laws and by the City's Zoning Ordinance. As of the date of this report, staff has not received any comments and/or inquiries regarding the proposed project.

It should be noted that due to the recent Covid-19 (coronavirus) outbreak, Governor Newsome issued Executive Order N-25-20 on March 4, 2020 to temporarily suspend requirements of the Brown Act, which allows the City to hold public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise electronically to all members of the public. All public hearing notices thus also clarified that the upcoming Planning Commission meeting will be held by teleconference since City Hall, including Council Chambers, is currently closed to the public.

The following ink to the Zoom meeting, along with the meeting ID, password, and dial in information was also provided:

Electronically using Zoom
Go to Zoom.us and click on "Join A Meeting" or use the following link:
https://zoom.us/j/558333944?pwd=b0FqbkV2aDZneVRnQ3BjYU12SmJlQT09

Zoom Meeting ID: 558 333 944
Password: 554545

Telephonically
Dial: 888-475-4499
Meeting ID: 558 333 944

ZONING REQUIREMENTS

The procedures set forth in Section 155.243 (L) of the City's Zoning Ordinance, states that public, private or quasi-public uses of an educational or recreation nature shall be allowed only after a valid conditional use permit has first been obtained.

Code Section:	Development Plan Approval
155.243 (L)	Section 155.243 (L) Public, private or quasi-public uses of an educational or recreation nature.

ENVIRONMENTAL DOCUMENTS

After staff review and analysis, staff intends to file a Notice of Exemption (NOE) with the Los Angeles County Clerk (if the Planning Commission agrees), finding that the proposed project is Categorically Exempt pursuant to Class 1, Section 15301 (Existing Facilities) and Class 3, Section 15303 (New Construction or Conversion of Small Structures) of the California Environmental Quality Act (CEQA). The proposed project involves a previously approved soccer facility. Although there will be minor interior and exterior improvements, the project will not create additional building square footage. Additionally, the project site is not listed on the Hazardous Waste and Substance Site List (Cortese List) as set forth in Government Code Section 65962.5.

AUTHORITY OF PLANNING COMMISSION

The Planning Commission may grant, conditionally grant or deny approval of a conditional use permit plan and/or modification request based on the evidence submitted and upon its own study and knowledge of the circumstances involved

and subject to such conditions as the Commission deems are warranted by the circumstances involved. These conditions may include the dedication and development of streets adjoining the property and other improvements. All conditions of approval shall be: binding upon the applicants, their successors and assigns; shall run with the land; shall limit and control the issuance and validity of certificates of occupancy; and shall restrict and limit the construction, location, use and maintenance of all land and structures within the development.

CRITERIA FOR GRANTING A DEVELOPMENT PLAN APPROVAL

The Commission should note that in accordance with Section 155.716 of the City's Zoning Ordinance, before granting a Conditional Use Permit, the Commission shall give consideration to the following:

A) *Satisfy itself that the proposed use will not be detrimental to persons or property in the immediate vicinity and will not adversely affect the city in general.*

B) *Give due consideration to the appearance of any proposed structure and may require revised architectural treatment if deemed necessary to preserve the general appearance and welfare of the community.*

STAFF REMARKS

Based on the findings set forth in the attached Resolution (161-2020), Staff finds that the applicant's request meets the criteria set forth in §155.716 of the City's Zoning Ordinance, for the granting of a Conditional Use Permit.

CONDITIONS OF APPROVAL

Conditions of approval for ACUP 781 are attached to Resolution 161-2020 as Exhibit A.

Wayne M. Morrell
Director of Planning

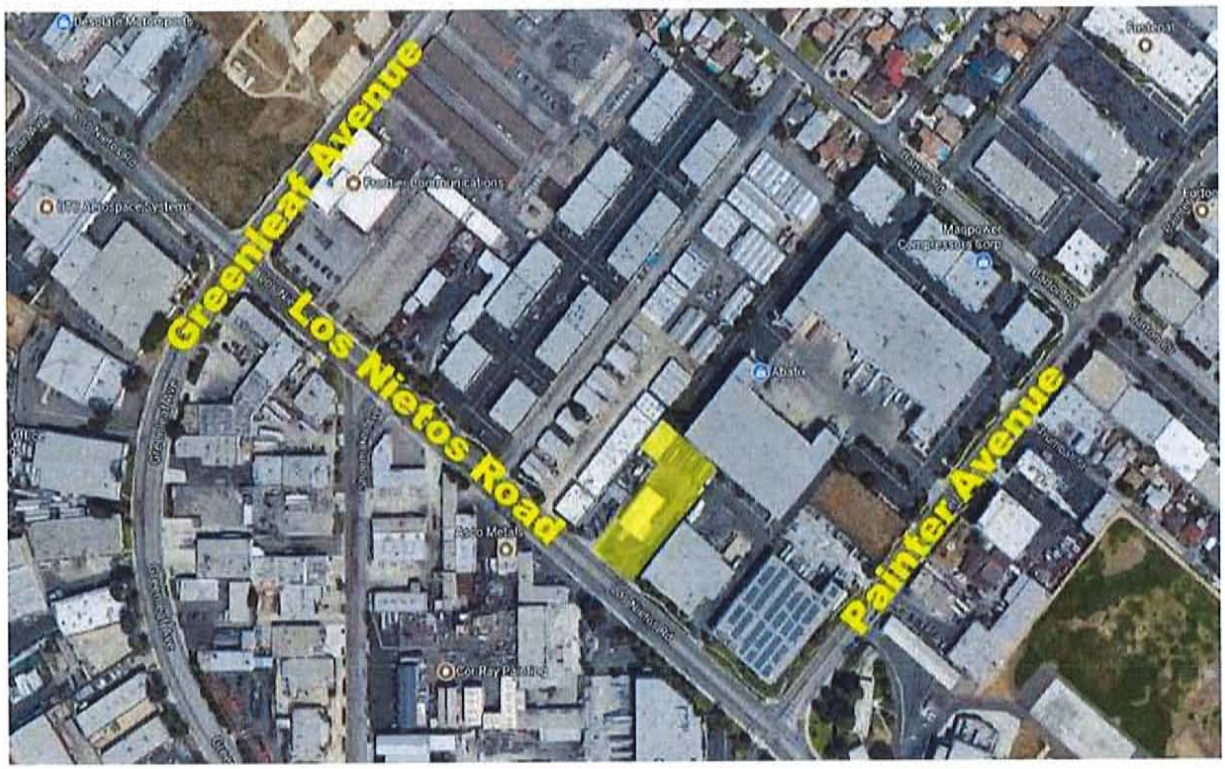
Attachments:
1. Aerial Photograph
2. Public Hearing Notice
3. Radius Map for Public Hearing Notice
4. Resolution 161-2020
    a. Exhibit A – Conditions of Approval
5. Full Amendment Request Package
    a. Exhibit A – Proposed Hours of Operation
    b. Exhibit B – Full Set of Plans
    c. Exhibit C – Tournament Schedule

Report Submitted By: Vince Velasco
Planning and Development Department

Date of Report: April 8, 2020

Attachment 1: Aerial Photograph

CITY OF SANTA FE SPRINGS



AERIAL PHOTOGRAPH

AMENDMENT OF CONDITIONAL USE PERMIT CASE NO. 781

NORTH

13045 Los Nietos Road
(Ballmaster Elite Soccer Academy)

Report Submitted By: Vince Velasco
Planning and Development Department

Date of Report: April 8, 2020

Attachment 2: Public Hearing Notice

FILE COPY

CITY OF SANTA FE SPRINGS
11710 Telegraph Road · CA · 90670-3679 · (562) 868-0511 · Fax (562) 868-7112 · www.santafesprings.org
"A great place to live, work, and play"

NEOPOST FIRST-CLASS MAIL
03/30/2020
US POSTAGE $000.00[0]
ZIP 90670
041L11257783

CITY OF SANTA FE SPRINGS
NOTICE OF PUBLIC HEARING
AMENDMENT OF CONDITIONAL USE PERMIT CASE NO. 781

NOTICE IS HEREBY GIVEN that the Planning Commission of the City of Santa Fe Springs will hold a Public Hearing to consider the following:

AMENDMENT OF CONDITIONAL USE PERMIT CASE NO. 781: A request for approval to modify the number of clients, hours of operation, and to allow tournaments for an existing soccer training facility, within the M-2, Heavy Manufacturing, Zone.

PROJECT SITE: 13045 Los Nietos Road, Santa Fe Springs, CA 90670 (Ballmaster Elite Soccer Academy)

THE HEARING will be held on **Monday, April 13, 2020 at 6:00 p.m.** Governor Newsom issued Executive Order N-25-20 on March 4, 2020 to temporarily suspend requirements of the Brown Act, which allows the City to hold public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise electronically to all members of the public. Please be advised that until further notice, Planning Commission meetings will be held by teleconference. City Hall, including Council Chambers, is closed to the public.

You may attend the Planning Commission meeting telephonically or electronically using the following means:

Electronically using Zoom
Go to Zoom.us and click on "Join A Meeting" or use the following link:
https://zoom.us/j/558333944?pwd=b0FqbkV2aDZneVRnQ3BjYU12SmJlQT09

Zoom Meeting ID: 558 333 944
Password: 554545

Telephonically
Dial: 888-475-4499
Meeting ID: 558 333 944

CEQA STATUS: After review and analysis, staff intends to file a Notice of Exemption (if the Planning Commission agrees), specifically Class 1, Section 15301 (Existing Facilities) of the California Environmental Quality Act (CEQA).

William K. Rounds, Mayor • John M. Mora, Mayor Pro Tem
City Council
Annette Rodriguez • Juanita Trujillo • Joe Angel Zamora
City Manager
Raymond R. Cruz

Attachment 2: Public Hearing Notice (Cont.)

ALL INTERESTED PERSONS are invited to participate in the Public Hearing before the Planning Commission and express their opinion on the subject item listed above. Please note that if you challenge the afore-mentioned item in court, you may be limited to raising only those issues you or someone else raised during or before the Public Hearing described in this notice, or in written correspondence prior to the Public Hearing.

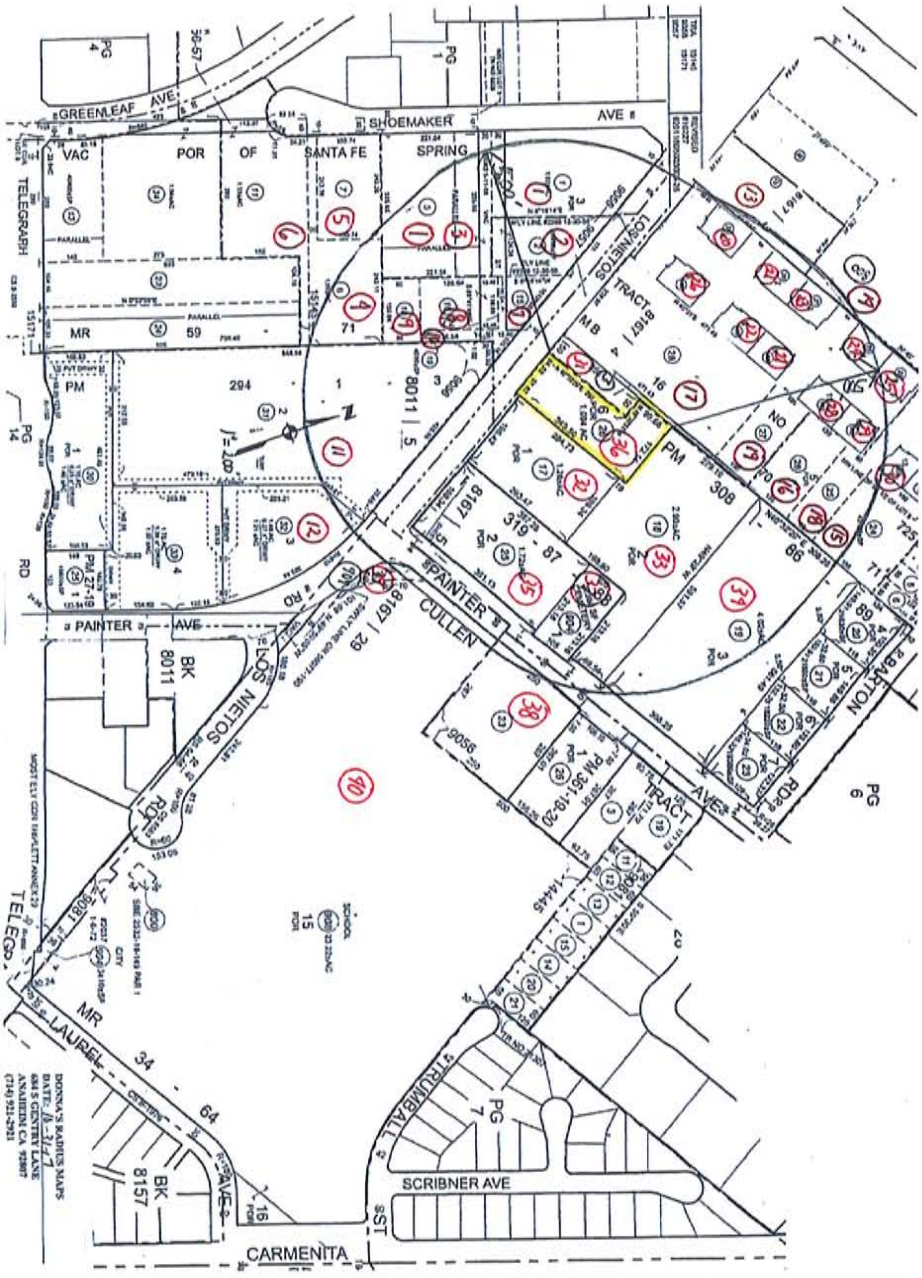
PUBLIC COMMENTS may be submitted in writing to the Planning Commission Secretary at teresacavallo@santafesprings.org. Please submit your written comments by 4:00 p.m. on the day of the Planning Commission meeting. You may also contact the Planning Department at (562) 868-0511 ext. 7550.

FURTHER INFORMATION on this item may be obtained by e-mail: vincevelasco@santafesprings.org.

Wayne M. Morrell
Director of Planning
City of Santa Fe Springs
11710 Telegraph Road
Santa Fe Springs, CA 90670

William K. Rounds, Mayor • John M. Mora, Mayor Pro Tem
City Council
Annette Rodriguez • Juanita Trujillo • Joe Angel Zamora
City Manager
Raymond R. Cruz

Attachment 3: Radius Map for Public Hearing Notice



Report Submitted By: Vince Velasco
Planning and Development Department

Date of Report: April 8, 2020

Attachment 4: Resolution 161-2020
Exhibit A – Conditions of Approval

CITY OF SANTA FE SPRINGS
RESOLUTION NO. 161-2020

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SANTA FE SPRINGS REGARDING AMENDMENT OF CONDITIONAL USE PERMIT CASE NO. 781

WHEREAS, a request for approval to modify the number of clients, to modify the hours of operation, and to allow occasional tournaments for an existing soccer training facility located at 13045 Los Nietos Road, within the M-2, Heavy Manufacturing, Zone; and

WHEREAS, the subject property is located on the north side of Los Nietos Road, with Accessor's Parcel Number of 8167-005-026, as shown in the latest rolls of the Los Angeles County Office of the Assessor; and

WHEREAS, the property owner is Danny Samarin, 603 Reposado Drive, La Habra Heights, CA 90631; and

WHEREAS, the proposed use amendment which includes Conditional Use Permit Case No. 781 is considered a project as defined by the California Environmental Quality Act (CEQA), Article 20, Section 15378(a); and

WHEREAS, based on the information received from the applicant and the provided staff reports, the Planning Commission has found and determined that the proposed project meets the criteria for a Categorical Exemption, pursuant to the California Environmental Quality Act (CEQA), Section 15301-Class 1 and Section 15303-Class 3; and

WHEREAS, the City of Santa Fe Springs Planning and Development Department on April 2, 2020, published a legal notice in the *Whitter Daily News,* a local paper of general circulation, indicating the date and time of the public hearing, and also mailed said public hearing notice on April 1, 2020 to each property owner within a 500 foot radius of the project site in accordance with state law; and

WHEREAS, the City of Santa Fe Springs Planning Commission has considered the application, the written and oral staff report, the General Plan and zoning of the subject property, the testimony, written comments, or other materials presented at the Planning Commission Meeting on April 13, 2020 concerning the Amendment of Conditional Use Permit Case No. 781.

NOW, THEREFORE, be it RESOLVED that the PLANNING COMMISSION of the CITY OF SANTA FE SPRINGS does hereby RESOLVE, DETERMINE and ORDER AS FOLLOWS:

SECTION I. ENVIRONMENTAL FINDINGS AND DETERMINATION

Pursuant to Section 15301, Class 1 (Existing Facilities) and Section 15303, Class 3 (New Construction or Conversion of Small Structures), of the California Environmental Quality Act (CEQA), the Planning Commission hereby finds and determines that the proposed project involves a previously approved soccer facility. Although there will be minor interior and exterior improvements, the project will not create additional building square footage. Therefore, it has been determined that additional environmental analysis is not necessary to meet the requirements of CEQA.

SECTION II. CONDITIONAL USE PERMIT FINDINGS

Pursuant to Section 155.716 of the City's Zoning Ordinance, in studying any application for a Conditional Use Permit, the Commission shall give consideration to the following:

A) Satisfy itself that the proposed use will not be detrimental to persons or property in the immediate vicinity and will not adversely affect the city in general.

The subject site is located within the M-2, Heavy Manufacturing, Zone and also has a General Plan land use designation of Industrial. A soccer training use provided that a CUP is granted, would be consistent with the current zoning and land use designation.

The soccer training facility was originally approved by the Planning Commission in December of 2017. The applicant, Ballmaster Elite Soccer Academy, is requesting an amendment of their Conditional Use Permit to modify the number of clients, to modify the hours of operation, and to allow occasional tournaments.

The primary concern would be to ensure that there is sufficient parking to accommodate the players and staff. The subject site has an existing Modification Permit (MOD 1283), which allows for a reduction of required parking stalls. Since the number of clients has decreased per hour, the proposed soccer training activities will not create a greater burden on the overall parking demand. Moreover, the proposed tournaments will be scheduled only on the weekends with a minimum of 40 minutes between games to allow adequate circulation of inbound and outbound traffic. Training sessions have been conditioned to not occur on days in which tournaments will be held. It should be noted that seating will not be provided and thus, reduce the impact from spectators. Lastly, the maximum number of people during training sessions will be 26 and the maximum number of people during tournaments will be 29. The subject site will provide 46 parking stalls and therefore, provide an additional 17-20 parking stalls for players who arrive early.

Nevertheless, a condition has been added to require the applicant to work with the planning staff to mitigate any future parking issues, should the need arise. Mitigations

include but are not limited to modifying hours of operations, concurrent use of buildings, etc. Additionally, other typical concerns related to safety, noise, and loitering have been addressed through conditions of approval. The Planning Commission finds that if the applicant operates in strict compliance with the conditions of approval, the existing soccer training activities would be harmonious with adjoining properties and surrounding land uses.

B) Give due consideration to the appearance of any proposed structure and may require revised architectural treatment if deemed necessary to preserve the general appearance and welfare of the community.

The subject property is fully improved with two (2) buildings totaling 9,330 sq. ft. of building area. The applicant is planning to make interior modifications to the building to accommodate their proposed soccer training activities. In addition, the applicant is proposing to make minor exterior improvements to provide two (2) additional parking stalls and 241 sq. ft. of landscaping. It should be noted that the outdoor field will remain the same size and is comparable to fields found at other training facilities which include netting, lighting, and padding. Furthermore, the outdoor field will be required to meet all structural standards set forth in the Building Code. The Planning Commission, therefore, finds that the proposed use will preserve the general appearance and welfare of the community.

SECTION III. PLANNING COMMISSION ACTION

The Planning Commission hereby adopts Resolution No. 161-2020 to approve the Amendment of Conditional Use Permit Case No. 781 to modify the number of clients, to modify the hours of operation, and to allow occasional tournaments for an existing soccer training facility located at 13045 Los Nietos Road (APN: 8167-005-026), within the M-2, Heavy Manufacturing, Zone, subject to conditions attached hereto as Exhibit A.

ADOPTED and APPROVED this 13th day of April, 2020 BY THE PLANNING COMMISSION OF THE CITY OF SANTA FE SPRINGS.

_____
Frank Ybarra, Chairperson

ATTEST:

_____
Teresa Cavallo, Planning Secretary

Exhibit A – Conditions of Approval

Amendment of Conditional Use Permit Case No. 781
13045 Los Nietos Road (APN: 8167-005-026)

CONDITIONS OF APPROVAL

ENGINEERING / PUBLIC WORKS DEPARTMENT:
(Contact: Robert Garcia 562.868-1511 x7545)

1. That a grading plan shall be submitted showing elevations and drainage pattern of the site. The improvements shall not impede, obstruct or pond water onsite. The grading plan shall be submitted for drainage approval to the City Engineer. The owner shall pay drainage review fees in conjunction with this submittal. **(on-going)**

POLICE SERVICES DEPARTMENT:
(Contact: Luis Collazo 562.409-1850 x3320)

2. That with the acceptance of these conditions of approval, the Applicant is now familiar with Section 155.718 of the Zoning Code which provides "that the Commission may grant a conditional use permit subject to such conditions as the Commission finds are warranted by the circumstances involved. . . All such conditions shall be binding upon the applicants, their successors and assigns; shall run with the land; shall limit and control the issuance and validity of certificates of occupancy; and shall restrict and limit the construction, location, use and maintenance of all land and structures within the development." As a result, any violation of the conditions of approval set forth within this report is a direct violation of Section 155.718 and subject to an Administrative Citation which carries fines of up to $500.00 each day that the violation continues to exist, or the revocation of this entitlement, or both. **(on-going)**

3. That the Applicant, his employees and/or his staff, shall not allow any type of outdoor activities within the required off-street parking area ~~or any satellite parking sites~~. This includes, but is not limited to, warm-ups, drilling exercises, team practices and/or team competitions. **(on-going)**

4. That on-site fund raisers and/or special events, if any, shall be conducted indoors at all times. Special events at the location ~~and/or satellite parking areas~~ are subject to a Permit obtained through the Department of Police Services. Applications for Special Events shall be submitted at least 30-days from the date of the event – no exceptions. **(on-going)**

5. That the applicant shall submit and obtain approval of a proposed lighting (photometric) plan for the property from the City's Department of Police Services. The photometric plan shall be designed to provide adequate

lighting (minimum of 1 foot candle power) throughout the subject property. Further, all exterior lighting shall be designed/installed in such a manner that light and glare are not transmitted onto adjoining properties in such concentration/quantity as to create a hardship to adjoining property owners or a public nuisance. The photometric plans shall be submitted to the Director of Police Services no later than sixty (60) day from the date of approval by the Planning Commission. **(on-going)**

6. That in order to facilitate the removal of unauthorized vehicles parked on the property ~~and any of the satellite parking sites~~, the applicant shall post, in plain view and at each entry to the property, a sign not less than 17" wide by 22" long. The sign shall prohibit the public parking of unauthorized vehicles and indicate that unauthorized vehicles will be removed at the owner's expense and also contain the California Vehicle Code that permits this action. The sign shall also contain the telephone number of the local law enforcement agency (Police Services Center (562) 409-1850). The lettering within the sign shall not be less than one inch in height. The applicant shall contact the Police Services Center for an inspection no later than 30 days after the project has been completed and prior to the occupancy permit being issued. **(on-going)**

7. That the proposed buildings, including any lighting, fences, walls, cabinets, and poles shall be maintained in good repair, free from trash, debris, litter and graffiti and other forms of vandalism. Any damage from any cause shall be repaired within 72 hours of occurrence, weather permitting, to minimize occurrences of dangerous conditions or visual blight. Paint utilized in covering graffiti shall be a color that matches, as closely possible, the color of the existing and/or adjacent surfaces. **(on-going)**

8. That advertising, banners, and other promotion devices shall be first approved by the Department of Planning and reviewed by the Department of Police Services. **(on-going)**

9. That it shall be the responsibility of the Applicant and his staff to maintain the site ~~and any satellite parking sites~~ in a clean and orderly manner. **(on-going)**

10. That porte-potties or equal, shall not be used on the site at any time, and that the Applicant shall provide adequate bathroom facilities and changing room facilities inside the buildings. **(on-going)**

11. That the sale of food and/or beverages, pre-packaged or otherwise, shall be first approved by the County Health Department. **(on-going)**

DEPARTMENT OF FIRE - RESCUE (FIRE PREVENTION DIVISION)
(Contact: Raul Diaz 562.868-0511 x3813)

12. That interior gates or fences are not permitted across required Fire Department access roadways unless otherwise granted prior approval by the City Fire Department. **(on-going)**

13. That all entry gates shall be equipped with Knox boxes or Knox key switches for power-activated gates. **(on-going)**

14. That signs and markings required by the Fire Department shall be installed along the required Fire Department access roadways. **(on-going)**

WASTE MANAGEMENT :
(Contact : Teresa Cavallo 562.868-0511 x7309)

15. That the applicant shall comply with Section 50.51 of the Municipal Code which prohibits any business or residents from contracting any solid waste disposal company that does not hold a current permit from the City. **(on-going)**

16. That all projects over $50,000 are subject to the requirements of Ordinance No. 914 to reuse or recycle 75% of the project waste. Contact the Recycling Coordinator, Teresa Cavallo at (562) 868-0511 x7309. **(on-going)**

PLANNING AND DEVELOPMENT DEPARTMENT:
(Contact: Vince Velasco 562.868-0511 x7353)

17. This approval is for the use of a ~~youth~~ soccer training facility, in the form of small-group (~~29 to 34~~ **21 to 36** players) sessions, with related activities only. A maximum of ~~34~~ **36** players and 5 staff members (including: administrative, trainers, coaches, and referees) shall be on the subject site per session. Any modification to the number of players or staff members shall be subject to prior review and approval by the Director of Planning or his/her designee. **(revised – on-going)**

18. That the Mitigation Monitoring and Reporting Program, which was prepared for the proposed project and adopted by the Planning Commission upon completion of the Initial Study/Mitigated Negative Declaration, shall be made part of the conditions of approval for Conditional Use Permit Case No. 781. The Mitigation Monitoring and Reporting Program is listed as an attachment to this staff report. **(on-going)**

19. Modification Permit Case No. 1283 allows for an ~~twenty-one (21)~~ **eighteen (18)** parking stall reduction to the minimum parking requirements associated with the subject ~~youth~~ soccer training use. A minimum of ~~44~~ **46**

parking stalls shall be continually provided and maintained at all times. All parking areas shall be legibly marked off on the pavement, showing the required parking stalls. **(revised – on-going)**

20. ~~Modification Permit Case No. 1284 allows for a 195 sq. ft. landscape reduction to the minimum landscaping requirements associated with the subject property. Said landscaping reduction is specific to the subject youth soccer training facility use~~. **(satisfied)**

21. Approval of Conditional Use Permit No. 781 is contingent upon approval of Modification Permit Case No. 1283 ~~and Modification Permit Case No. 1284~~. **(revised – on-going)**

22. The proposed ~~youth~~ soccer training facility use cannot be used for public assembly purposes until it has met the current requirements of the Los Angeles County Building Code and the Uniform Fire Code and an occupancy load has been determined by the Fire Department. The process requires permits to be obtained, plans to be submitted, reviewed, approved, and field inspected with a final approval granted by the City Fire Department and Building Division. The building shall not be occupied for such use until such time that this process has been completed. **(on-going)**

23. Wall-mounted methane gas detectors must be installed and maintained throughout the proposed project site in order to detect an intrusion of methane into the proposed project. The wall-mounted methane gas detectors must be installed and maintained in compliance with all requirements set by the City of Santa Fe Springs Department of Fire and Rescue. **(on-going)**

24. The exterior exit doors shall remain closed when not being used for ingress/egress purposes. Additionally, the applicant shall inform all staff members and players not to loiter or make loud noises outside of the building before or after each session. **(on-going)**

25. Vending machines shall be prohibited on the exterior of the property. **(on-going)**

26. In the event noise levels outside of the applicant's premises are found to exceed permissible levels per City Code, the applicant shall work with planning staff to come up with a solution to immediately mitigate noise issues. **(on-going)**

27. The days and hours of operation of the ~~youth~~ soccer training facility shall be Monday through Friday from ~~4:00 p.m.~~ **9:00 a.m.** to 11:00 p.m.; & Saturday and Sunday from ~~7:30 a.m. to 9:00 p.m.~~ **9:00 a.m. to 5:00 p.m.**

~~Specific training session times shall be limited to the following:~~

- ~~Monday – Friday:~~
  - ~~Office Use: 4:00pm – 5:00pm~~
  - ~~Session 1: 5:00pm – 6:00pm~~
  - ~~Session 2: 7:00pm – 8:00pm~~
  - ~~Session 3: 9:00pm – 10:00pm~~
  - ~~Office Use: 10:00pm – 11:00pm~~
- ~~Saturday – Sunday:~~
  - ~~Scrimmage 1: 8:00 a.m. – 9:00 a.m.~~
  - ~~Scrimmage 2: 11:00 a.m. – 12:00 p.m.~~
  - ~~Scrimmage 3: 2:00 p.m. – 3:00 p.m.~~
  - ~~Scrimmage 4: 5:00 p.m. – 6:00 p.m.~~
  - ~~Scrimmage 5: 8:00 p.m. – 9:00 p.m.~~

Any modification to the days and hours of operation, including session times, shall be subject to prior review and approval by the Director of Planning or his/her designee. **(revised – on-going)**

~~28. Activities related to the youth soccer training use within Building 1 shall not occur on Saturdays and Sundays. Scrimmages will be limited to Building 2 and the Outdoor Turf Field only.~~ **(removed)**

~~29. No tournaments shall occur on the subject property without prior approval by the Director or Planning or his/her designee.~~ **All tournaments shall be limited to Saturdays and Sundays only and subject to the tournament schedule on file for this case. The facility will not be open to the public on tournament days. Any modifications to the days and hours of tournaments shall be subject to prior review and approval by the Director of Planning or his/her designee. (revised – on-going)**

30. There shall be no on-site kitchen facilities or preparation of food and drinks without prior approval from the Director of Planning or his/her designee. **(on-going)**

31. The applicant shall provide water for all players during sessions, scrimmages, **and tournaments**. **(revised – on-going)**

32. The ~~youth~~ soccer training facility shall otherwise be substantially in accordance with the plot plan, floor plan, and operational narrative submitted by the applicant and on file with the case. Any modification shall be subject to prior review and approval by the Director of Planning or his/her designee. **(revised – on-going)**

33. The applicant shall notify, in writing, of any change in ownership within 30 days. The conditions of approval shall be binding to any successors. **(on-going)**

34. In the event the need arises for the additional required off-street parking spaces as determined by the Director of Planning, the applicant shall work with the planning staff to come up with a solution to immediately mitigate the parking issues, including but not limited to modifying hours of operations, concurrent use of buildings, etc. **(on-going)**

35. The Department of Planning and Development shall first review and approve all sign proposals for the ~~youth~~ soccer training facility. The sign proposal (plan) shall include a site plan, building elevation on which the sign will be located, size, style and color of the proposed sign. All drawings shall be properly dimensioned and drawn to scale on 11" x 17" size paper. All signs shall be installed in accordance with the sign standards of the Zoning Ordinance and the Sign Guidelines of the City. **(revised – on-going)**

36. Prior to occupancy, the applicant shall obtain a valid business license (AKA Business Operation Tax Certificate), and submit a Statement of Intended Use. Both forms, and other required accompanying forms, may be obtained at City Hall by contacting ~~Cecilia Martinez~~ **Finance Department** at (562) 868-0511, extension ~~7527~~ **7520**, or through the City's web site (www.santafesprings.org). **(revised – on-going)**

37. All other requirements of the City's Zoning Ordinance, Building Code, Property Maintenance Ordinance, State and City Fire Code and all other applicable County, State and Federal regulations and codes shall be complied with. **(on-going)**

38. Conditional Use Permit Case No. 781 shall be subject to a compliance review in one year, on or before ~~December 11, 2018~~ **April 13, 2021**, to ensure that the subject ~~youth~~ soccer training use is still operating in strict compliance with these conditions of approval. **(revised – on-going)**

39. ~~The applicant, Ballmaster Elite Soccer Academy, agrees to defend, indemnify and hold harmless the City of Santa Fe Springs, its agents, officers and employees from any claim, action or proceeding against the City or its agents, officers or employees to attack, set aside, void or annul an approval of the City or any of its councils, commissions, committees or boards arising from or in any way related to all entitlements and approvals issued by the City in connection with the youth soccer training use and from any CEQA challenges relating to the environmental review and determination for the project, or any actions or operations conducted pursuant thereto. Should the City, its agents, officers or employees receive notice of any such claim, action or proceeding, the City shall promptly notify the applicant of such claim, action or proceeding, and shall cooperate fully in the defense thereof.~~ **The applicant shall indemnify, protect, defend, and hold harmless, the City, and/or any of its officials, officers, employees, agents, departments, agencies, and instrumentalities**

thereof, from any and all claims, demands, law suits, writs of mandamus, and other actions and proceedings (whether legal, equitable, declaratory, administrative or adjudicatory in nature), and alternative dispute resolutions procedures (including, but not limited to arbitrations, mediations, and other such procedures), (collectively "Actions"), brought against the City, and/or any of its officials, officers, employees, agents, departments, agencies, and instrumentalities thereof, that challenge, attack, or seek to modify, set aside, void, or annul, the any action of, or any permit or approval issued by, the City and/or any of its officials, officers, employees, agents, departments, agencies, and instrumentalities thereof (including actions approved by the voters of the City), for or concerning the project, whether such Actions are brought under the California Environmental Quality Act, the Planning and Zoning Law, the Subdivisions Map Act, Code of Civil Procedure Section 1085 or 1094.5, or any other state, federal, or local statute, law, ordinance, rule, regulation, or any decision of a court of competent jurisdiction. In addition, the applicant shall reimburse the City, its officials, officers, employees, agents, departments, agencies, for any Court costs and attorney's fees which the City, its agents, officers, or employees may be required by a court to pay as a result of such action. It is expressly agreed that the City shall have the right to approve, which approval will not be unreasonably withheld, the legal counsel providing the City's defense, and that applicant shall reimburse City for any costs and expenses directly and necessarily incurred by the City in the course of the defense. City shall promptly notify the applicant of any such claim, action or proceeding, and shall cooperate fully in the defense thereof. (revised – on-going)

40. If there is evidence that conditions of approval have not been fulfilled or the use has or have resulted in a substantial adverse effect on the health, and/or general welfare of users of adjacent or proximate property, or have a substantial adverse impact on public facilities or services, the Director of Planning may refer the use permit to the Planning Commission for review. If upon such review, the Commission finds that any of the results above have occurred, the Commission may modify or revoke the use permit. Applicant shall be notified prior to any such action. **(on-going)**

41. It is hereby declared to be the intent that if any provision of this Approval is violated or held to be invalid, or if any law, statute or ordinance is violated, this Approval shall be void and privileges granted hereunder shall lapse. **(on-going)**

Attachment 5: Full Amendment Request Package
Exhibit A – Hours of Operation
Exhibit B – Full Set of Plans
Exhibit C – Tournament Schedule

R.E.A.L. DESIGN
responsible • environmental • alternative • living ©

Project Name: Ballmaster Elite Soccer Academy
Project Address: 13045 Los Nietos Road, Santa Fe Springs, CA 90670
Date: 3/9/2020
Title: Conditional Use Permit Amendment

Dear Mr. Velasco,

Our firm has been hired by the applicant, Mr. Sam Diep, to represent Ballmaster Elite Soccer Academy (BESA) to amend the previously approved Condition Use Permit Case No. 781, Modification Permit Case No. 1283 and Modification Permit Case No. 1284 with the followings:

1. Applicant is seeking approval of extending the business hours previously approved. Please see Exhibit A for more information.

2. Applicant is seeking approval to remove the existing private offices in Building 1 in order to enlarge the indoor training field. Also, the applicant is seeking approval to enlarge the indoor "futsal" field in Building 2 as well as the change of design of the outdoor soccer field. Please see Exhibit B for more information.

3. Applicant is seeking approval to allow for soccer tournaments on the subject property. Please see Exhibit C for a sample tournament schedule.

Please review the information provided and feel free to reach out with any questions.

Sincerely,

Crystal Wong

R.E.A.L. DESIGN
responsible • environmental • alternative • living ©

Exhibit A

Proposed operation schedule

	Building 1	Building 2	Outdoor Soccer Field	Employees	Total Number of People	Total Parking Provided	Total Parking Remain
	4 Trainees & 1 Trainer	2 Groups of 3 Players & 2 Trainers	2 Groups of 5 Players	3		44	
Monday to Friday							
9 am - 10 am	5	8	10	3	26	46	20
10 am - 11 am	5	8	10	3	26	46	20
11 am - 12 pm	5	8	10	3	26	46	20
12 pm - 1 pm	5	8	10	3	26	46	20
1 pm - 2pm	5	8	10	3	26	46	20
2 pm - 3 pm	5	8	10	3	26	46	20
3 pm - 4 pm	5	8	10	3	26	46	20
4 pm - 5 pm	5	8	10	3	26	46	20
5 pm - 6 pm	5	8	10	3	26	46	20
6 pm - 7 pm	5	8	10	3	26	46	20
7 pm - 8 pm	5	8	10	3	26	46	20
8 pm - 9 pm	5	8	10	3	26	46	20
9 pm - 10 pm		8	10	3	21	46	25
10 pm - 11 pm		8	10	3	21	46	25
Saturday Sunday Similar (By Request Only)							
9 am - 10 am	5	8	10	3	26	46	20
10 am - 11 am	5	8	10	3	26	46	20
11 am - 12 pm	5	8	10	3	26	46	20
12 pm - 1 pm	5	8	10	3	26	46	20
1 pm - 2pm	5	8	10	3	26	46	20
2 pm - 3 pm	5	8	10	3	26	46	20
3 pm - 4 pm	5	8	10	3	26	46	20
4 pm - 5 pm	5	8	10	3	26	46	20

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Justification Statement:

BESA will be a soccer training facility for youths and adults alike. It will focus on the aspects of training physically and mentally for the game of soccer. BESA will make this a fun environment for all and be part of the community in promoting health and fitness especially for soccer athletes. It will offer private and small group training for youths and adults at the facility. It will focus on programs from k-12 and become involved with elementary, middle and high school programs. It is also BESA's objective to further educate the youths regarding college and higher education and be able to provide services that will help them succeed.

The proposed change of operation hours will allow BESA to provide adequate number of hours to service its residents - both youths and adults. The previously approved hours, 4 pm - 11 pm, are not feasible for the existence of the facility as they would not benefit but hinder the operation of the training center in an economic sense. Provided that the facility is servicing both youths and adults, the additional operation hours during the day will allow adult trainees to practice while the youths will be able to practice during after school hours.

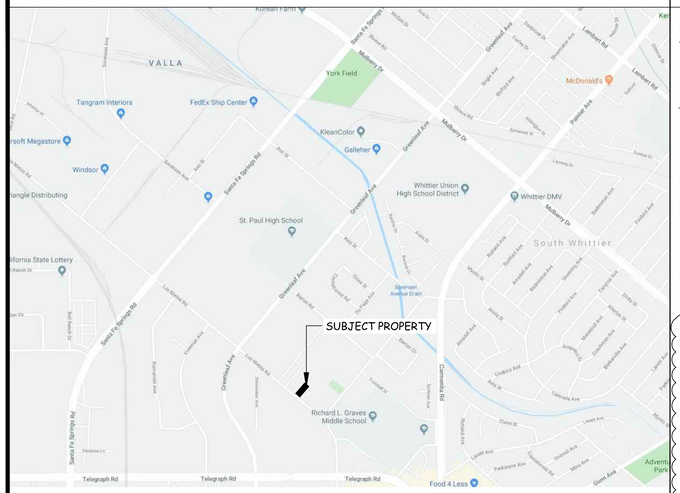
In addition, the proposed continuous hours of operation will not create an unreasonable demand for parking. The revised drawings show a less required amount of parking spaces. The previously requirement of 65 is changed to 64. They also show 2 additional parking spaces will be provided. There will be a total of 46 parking stalls on site. There will be enough overflow of parking spaces available during each training hour based on the number of players proposed. While sufficient parking is a concern, the proposed maximum of 26 cars at any given hour (20 trainees, 3 trainers, and 3 employees) comparing to the 46 parking stalls provided is proven to be feasible and manageable. The schedule above shows to be a benefit not only for the facility, but the City of Santa Fe Springs and its residents as well as neighboring businesses. Applicant will ensure the maximum number of people present at the facility will be fulfilled and will schedule accordingly to ensure there are no training sessions going on if there is a rental and vice versa as parking will not be sufficient and capacity will go over the maximum required.

The proposed soccer training facility is consistent with the General Plan developed by the City of Santa Fe Springs. An incubating business such as the proposed will not only provide recreational service to its residents but will also attract residences from the surrounding neighborhoods to come visit. This will create an economic revenue to the City of Santa Fe Springs favorably. The extended hours of operation will allow BESA to do the above.

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Exhibit B
See Drawings Attached

VICINITY MAP



PROJECT INFORMATION

PROJECT ADDRESS
13045 LOS NIETOS ROAD
SANTA FE SPRINGS, CA 90670

ZONING
M2

LEGAL DESCRIPTION:
APN: 8167-005-026 (1)
TR = 725 LAND SEC IN DOC 1258431, 091511 POR OF LOT 6

DESCRIPTION OF WORK:

- NEW INDOOR SOCCER TRAINING FIELD IN BUILDING 1
- NEW FUTSAL FIELD IN BUILDING 2
- NEW OUTDOOR SOCCER FIELD

PROJECT STATISTICS:

CONSTRUCTION TYPE	
BUILDING 1:	TYPE VB
BUILDING 2:	TYPE VB
USE	B OCCUPANCY
NUMBER OF STORY	ONE-STORY

BUILDING 1 FLOOR AREA BREAKDOWN	
EQUIPMENT STORAGE 1	222 S.F.
LOBBY	122 S.F.
RECEPTION/OPEN OFFICE	215 S.F.
HALL 2	469 S.F.
TRAINING FIELD	3,372 S.F.
EQUIPMENT STORAGE 2	729 S.F.
RESTROOM 1	107 S.F.
RESTROOM 2	94 S.F.
TOTAL	5,330 S.F.

BUILDING 2 FLOOR AREA BREAKDOWN	
HALL 1	315 S.F.
ELECTRICAL CLOSET	24 S.F.
HALL 2	342 S.F.
FUTSAL FIELD	3,319 S.F.
TOTAL	4,000 S.F.

SITE AREA	43,235 S.F.
BUILDING 1 FLOOR AREA	5,330 S.F.
BUILDING 2 FLOOR AREA	4,000 S.F.
TOTAL BUILDING AREA	9,330 S.F.

PARKING REQUIREMENT	
TRAINING FIELD	3,372 @ 1/250 = 14 (1)
FUTSAL FIELD	3,319 @ 1/250 = 13 (2)
RECEPTION/ OPEN OFFICE	222 @ 1/300 = 1
STORAGE	951 @ 1/500 = 2 (3)
OUTDOOR FIELD	8,400 @ 1/250 = 34
TOTAL REQUIRED	64 (3)
TOTAL PROVIDED	46
(TOTAL REQUIRED PER APPROVED C.U.P. CASE NO. 781 = 44)	

LANDSCAPE REQUIREMENT	
LINEAL FEET OF FRONTAGE	122.14'
REQUIRED	122.14 X 25 = 3045 S.F.
PROVIDED	2,161 S.F.
PARKING AREA	14,832 S.F.
REQUIRED	14,832 X 6% = 809 S.F.
PROVIDED	1,829 S.F.
TOTAL REQUIRED	3,935 S.F.
TOTAL PROVIDED	3,990 S.F.

SYMBOLS

- DETAIL NUMBER / SHEET NUMBER (BLANK IF SAME SHEET)
- ELEVATION/SECTION NUMBER / SHEET NUMBER (BLANK IF SAME SHEET)
- ROOM NAME AND NUMBER
- DOOR NUMBER
- WINDOW NUMBER
- KEYNOTE
- REVISION REFERENCE
- DIMENSION LINE - NUMBER TO LEFT OR TOP OF LINE
- CENTERLINE DIMENSION, ELEVATION FLOOR HEIGHT, FINISH INDICATOR LINE
- BREAK IN LINE, DETAIL OR DIMENSION
- FLOORS, CEILING LINE (ELEVATIONS, SECTIONS)
- ALIGN FINISHED SURFACE
- FIRE EXTINGUISHER CABINET
- GRID LINE REFERENCE: NUMBERS SHALL RUN HORIZONTALLY AND LETTERS RUN VERTICALLY IN GRID PATTERN
- OCCUPANCY LOAD / OCCUPANCY FACTOR / OCCUPANCY GROUP
- WALL TYPE / TYPE DESIGNATION, SEE A8.01 / STUD SIZE / REQUIRED RATING
- NORTH ARROW
- PROPERTY LINE
- INT. ELEV. REFERENCE
- SMOKE DETECTOR
- EQUIPMENT TAG, SEE A8.10

ARCHITECTURAL ABBREVIATIONS

A/C	AIR CONDITIONING	JAN.	JANITOR
A.C. TILE	ACOUSTICAL CEILING	JT.	JOINT
ACOUS.	ACOUSTICAL		
ADJ.	ADJACENT	KIT.	KITCHEN
ADJUST.	ADJUSTABLE		
A.F.F.	ABOVE FINISH FLOOR	LAM.	LAMINATE
ALUM.	ALUMINUM	LAV.	LAVATORY
AMP.	AMPERE	LBS.	POUNDS
APPROX.	APPROXIMATE	L.H.	LEFT HAND
ARCH.	ARCHITECTURAL	LT.	LIGHT
BD.	BOARD	MAINT.	MAINTENANCE
BLDG.	BUILDING	MAS.	MASONRY
BLK.	BLOCK	MATL.	MATERIAL
BLKG	BLOCKING	MAX.	MAXIMUM
BOT.	BOTTOM	MECH.	MECHANICAL
		MFR.	MANUFACTURER
CAB.	CABINET	MIN.	MINIMUM
C.B.	CATCH BASIN	MISC.	MISCELLANEOUS
CEM.	CEMENT	MLWK.	MILLWORK
CLG.	CEILING	M.O.	MASONRY OPENING
CLOS.	CLOSET	MTD.	MOUNTED
CLR.	CLEAR	MTL.	METAL
CLR. OPEN.	CLEAR OPENING	MUL.	MULLION
C.M.U.	CONCRETE MASONRY UNIT		
COL.	COLUMN	N.	NORTH
CONC.	CONCRETE	N.I.C.	NOT IN CONTRACT
CONN.	CONNECTION	NO.	NUMBER
CONT.	CONTINUOUS	NOM.	NOMINAL
CONTR.	CONTRACTOR	N.T.S.	NOT TO SCALE
CORR.	CORRIDOR		
CPT.	CARPET	O.C.	ON CENTER
C.T.	CERAMIC TILE	O.D.	OUTSIDE DIAMETER
CTR.	CENTER	OFF.	OFFICE
CW	COLD WATER	OPNG.	OPENING
		OPP.	OPPOSITE
D.	DEEP		
DBL.	DOUBLE	PL.	PLATE
DED.	DEDICATED	P.LAM.	PLASTIC LAMINATE
DEPT.	DEPARTMENT	PLAS.	PLASTER
D.F.	DRINKING FOUNTAIN	PLUMB.	PLUMBING
DIA.	DIAMETER	PLYWD.	PLYWOOD
DIAG.	DIAGONAL	PNL.	PANEL
DIM.	DIMENSION	PR.	PAIR
DN.	DOWN	PROJ.	PROJECTION
DR.	DOOR	PT.	POINT
D.S.P.	DRY STAND PIPE	P.P.	POWER POLE
DTL.	DETAIL	PTN.	PARTITION
DWG.	DRAWING		
DWR.	DRAWER	R.	RISER
		RAD.	RADIUS
E.	EAST	REF.	REFERENCE
EA.	EACH	REFR.	REFRIGERATOR
E.F.	EXHAUST FAN	REINF.	REINFORCED
ELEV.	ELEVATION	REQ'D.	REQUIRED
ELEC.	ELECTRIC	RESIL.	RESILIENT
EL.	ELEVATOR	R.H.	RIGHT HAND
EQ.	EQUAL	RM.	ROOM
EXIST.	EXISTING	R.O.	ROUGH OPENING
EXP.	EXPANSION	R.Y.S.B.	REAR YARD SETBACK
EXP'D.	EXPOSED		
EXT.	EXTERIOR	S.	SOUTH
		S.C.	SOLID CORE
F.D.	FLOOR DRAIN	SCHED.	SCHEDULE
F.E.C.	FIRE EXTINGUISHER CABINET	SECT.	SECTION
F.H.C.	FIRE HOSE CABINET	SEP.	SEPARATE
FIN.	FINISH	SHT.	SHEET
FIXT.	FIXTURE	SIM.	SIMILAR
FLR.	FLOOR	SKL.	SKYLIGHT
FLUOR.	FLUORESCENT	SPEC.	SPECIFICATION
F.O.C.	FACE OF COLUMN	S. O.	SQUARE
F.O.F.	FACE OF FINISH	S.S.	STAINLESS STEEL
F.O.M.	FACE OF MASONRY	STD.	STANDARD
F.O.S.	FACE OF STUD	STG'D.	STAGGERED
F.S.	FLOOR SINK	STL.	STEEL
FT.	FOOT OR FEET	STOR.	STORAGE
FULL	FULL SIZE	STRUCT.	STRUCTURAL
FURN.	FURNITURE	SUSP.	SUSPENDED
FURR.	FURRING	SYM.	SYMMETRICAL
F.Y.S.B.	FRONT YARD SETBACK	S.Y.S.B.	SIDE YARD SETBACK
GAL.	GALLON	T.	TREAD
GA.	GAUGE	TEL.	TELEPHONE
GALV.	GALVANIZED	TEMP.	TEMPERED
G.C.	GENERAL CONTRACTOR	T&G	TONGUE AND GROOVE
G.F.I.	GROUND FAULT INTERRUPT	T.O.W.	TOP OF WALL
GL.	GLAZING	TYP.	TYPICAL
GRND.	GROUND	U.L.	UNDERWRITERS LABORATORY
GR.	GRADE	UNF.	UNFINISHED
GYP.	GYPSUM	U.N.O.	UNLESS NOTED OTHERWISE
GYP. BD.	GYPSUM WALLBOARD	U.O.N.	UNLESS OTHERWISE NOTED
H.	HIGH	V.	VOLTS
H.C.	HOLLOW CORE	V.C.T.	VINYL COMPOSITION TILE
HDWD.	HARDWOOD	VERT.	VERTICAL
HDWE.	HARDWARE	VEST.	VESTIBULE
H.M.	HOLLOW METAL	V.I.F.	VERIFY IN FIELD
HORIZ.	HORIZONTAL		
HR.	HOUR	W.	WEST
HT.	HEIGHT	W/	WITH
H.V.A.C.	HEATING, VENTILATION & AIR CONDITIONING	W.C.	WATER CLOSET
		WD.	WOOD
HW	HOT WATER	W.H.	WATER HEATER
		W.M.	WATER METER
I.D.	INSIDE DIAMETER	W/O	WITHOUT
IN.	INCH	WP.	WATERPROOF
INSUL.	INSULATION	W.R.	WATER RESISTANT
INT.	INTERIOR	WT.	WEIGHT

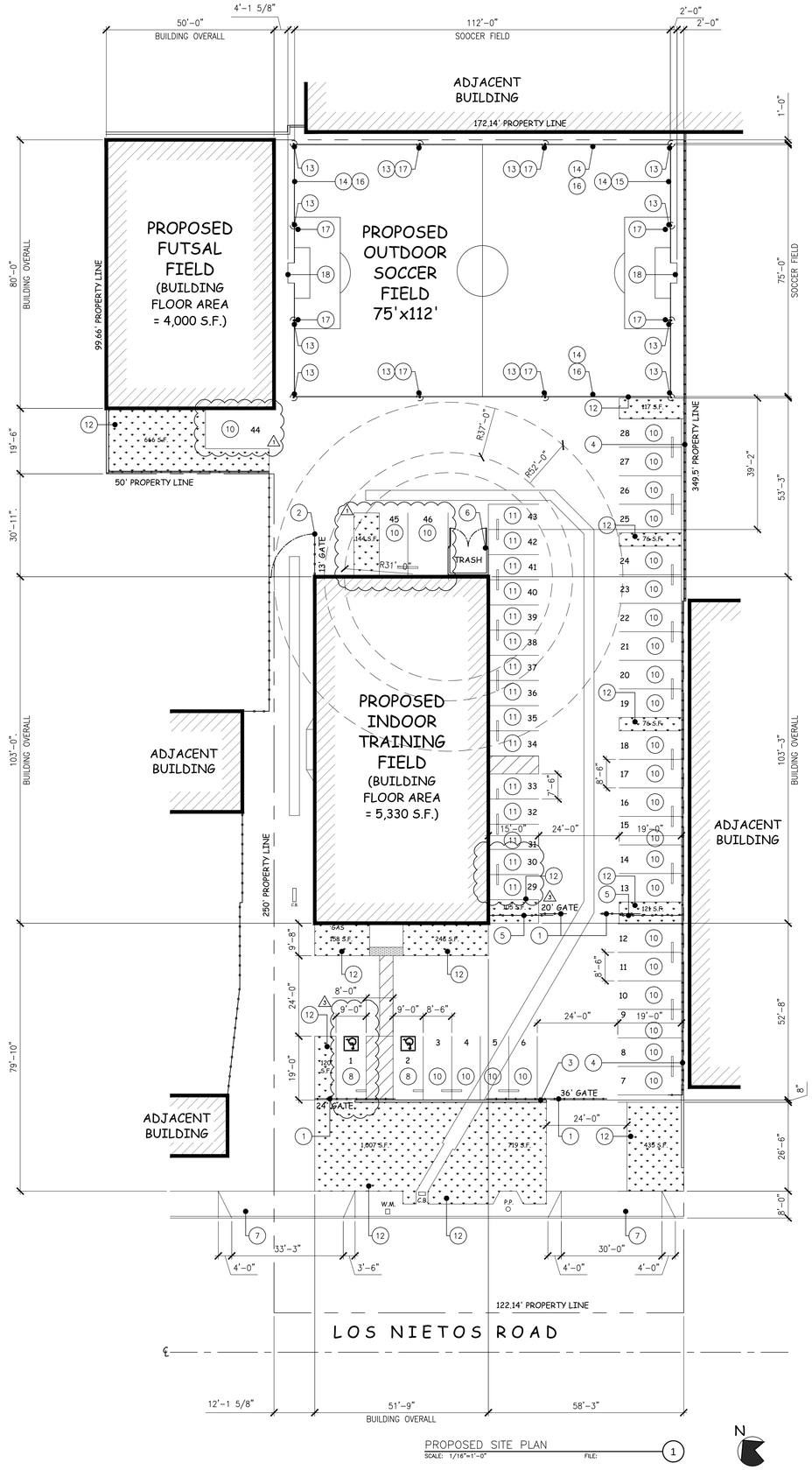
SHEET INDEX

ARCHITECTURAL

A0	PROJECT INFORMATION & PROPOSED SITE PLAN
A1	EXISTING/DEMO BUILDING 1 & 2 FLOOR PLANS
A2	PROPOSED BUILDING 1 & 2 FLOOR PLANS

SITE PLAN KEYNOTES:

1. EXISTING SLIDING GATE TO REMAIN
2. EXISTING SWINGING GATE TO REMAIN
3. EXISTING CMU WALL TO REMAIN
4. EXISTING CHAIN-LINK FENCE TO REMAIN
5. EXISTING METAL FENCE TO REMAIN
6. EXISTING CMU TRASH ENCLOSURE TO REMAIN
7. EXISTING DRIVEWAY APRON TO REMAIN
8. NEW ACCESSIBLE VAN PARKING SPACE
9. NOT USED (1)
10. NEW STANDARD PARKING SPACE
11. NEW COMPACT PARKING SPACE
12. REQUIRED LANDSCAPING AREA
13. NEW 16' H STEEL POST
14. NEW 42" H LOW WALL PANEL
15. NEW NETTING ABOVE WALL PANEL AT 16' HEIGHT
16. NEW NETTING ABOVE WALL PANEL AT 12' HEIGHT
17. NEW LED FLOOD LIGHT
18. NEW GOALIE WITH NETTING



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REVISIONS			
	ISSUE	BY	DATE
1	CUP AMENDMENT RESUBMITTAL	CW	12/23/19
2	CUP AMENDMENT RESUBMITTAL	CW	2/26/20
3	CUP AMENDMENT RESUBMITTAL	CW	3/9/20

CONSULTANTS:

CONDITIONAL USE PERMIT AMENDMENT SUBMITTAL

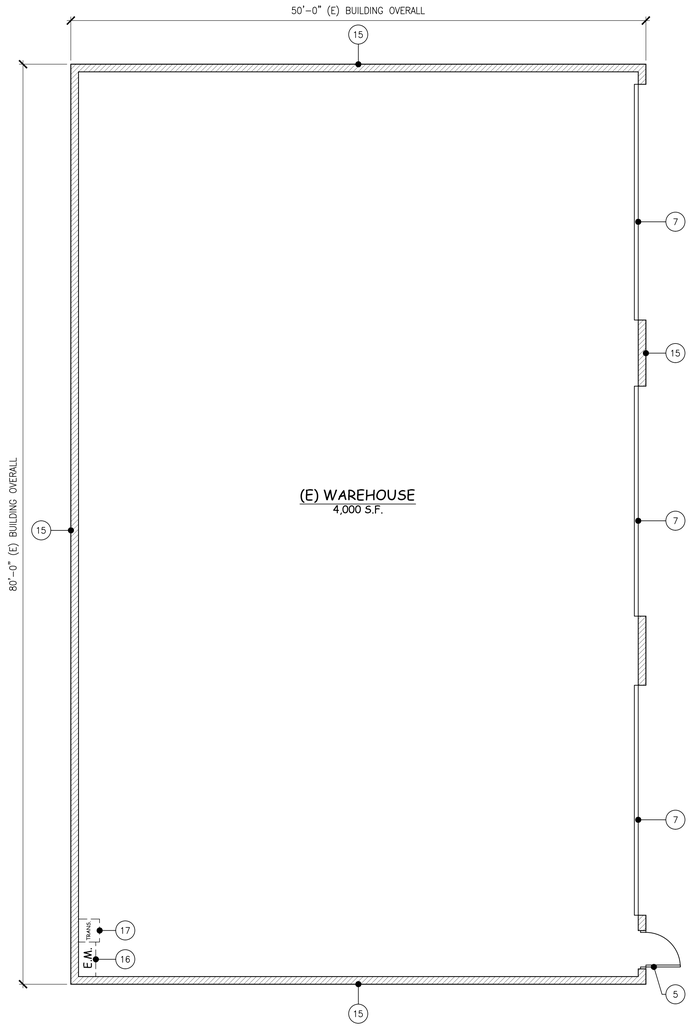
PROJECT
B.E.S.A. SOCCER CENTER

Sheet Title
COVER SHEET

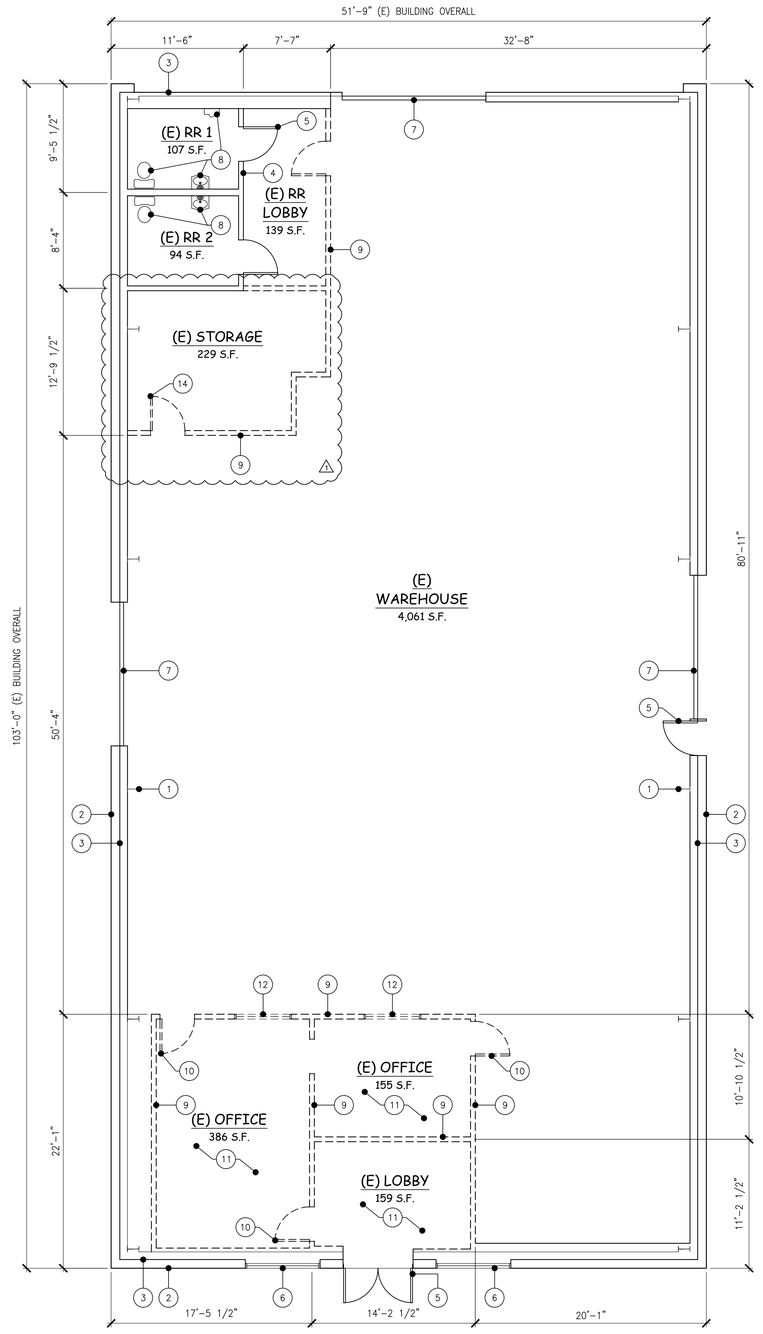
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Date Printed: 3/7/2020

Job # 190916-01

A0



EXISTING/DEMO BUILDING 2 FLOOR PLAN (2)
SCALE: 3/16"=1'-0" FILE:



EXISTING/DEMO BUILDING 1 FLOOR PLAN (1)
SCALE: 3/16"=1'-0" FILE:

N

PLAN LEGEND:

- EXISTING WALL TO REMAIN
- EXISTING CMU WALL TO REMAIN
- EXISTING WALL TO BE REMOVED

PLAN KEYNOTES:

1. EXISTING STEEL MOMENT FRAME TO REMAIN, TYP.
2. EXISTING PRE-FABRICATED STUCCO PANEL OVER METAL FRAME TO REMAIN, TYP.
3. EXISTING CORRUGATED METAL PANEL OVER Z-GURT TO REMAIN, TYP.
4. EXISTING NON-LOAD BEARING WALL TO REMAIN, TYP.
5. EXISTING DOOR TO REMAIN, TYP.
6. EXISTING SPANDREL WINDOW TO REMAIN, TYP.
7. EXISTING ROLL UP DOOR TO REMAIN, TYP.
8. EXISTING PLUMBING FIXTURES TO REMAIN, TYP.
9. EXISTING NON-LOAD BEARING WALL TO BE REMOVED
10. EXISTING DOOR TO BE REMOVED
11. EXISTING DROPPED-CEILING AND LIGHT FIXTURES TO BE REMOVED, TYP.
12. EXISTING WINDOW TO BE REMOVED
13. CREATE NEW OPENING FOR FUTURE DOOR
14. EXISTING DOOR TO BE RELOCATED
15. EXISTING CMU WALL TO REMAIN
16. EXISTING ELECTRICAL METER & SWITCHBOARD TO REMAIN
17. EXISTING TRANSFORMER TO REMAIN

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3	CUP AMENDMENT RESUBMITTAL	CW	3/9/20

CONSULTANTS:

CONDITIONAL USE PERMIT AMENDMENT SUBMITTAL

PROJECT

B.E.S.A. SOCCER CENTER

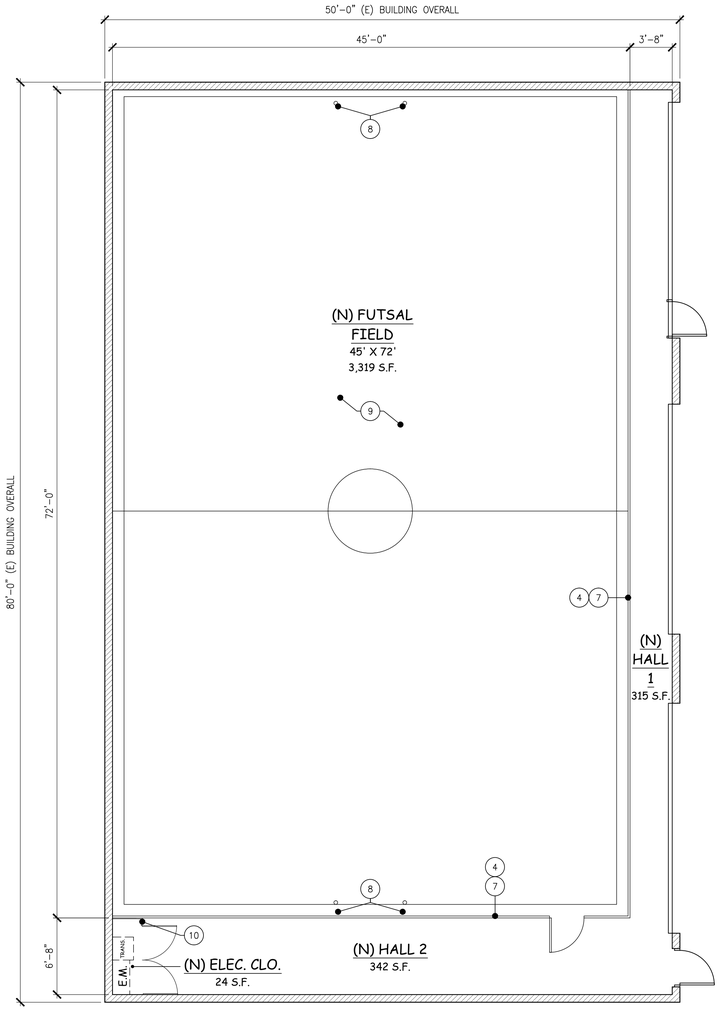
Sheet Title

EXISTING/DEMO BUILDINGS 1 & 2 FLOOR PLANS

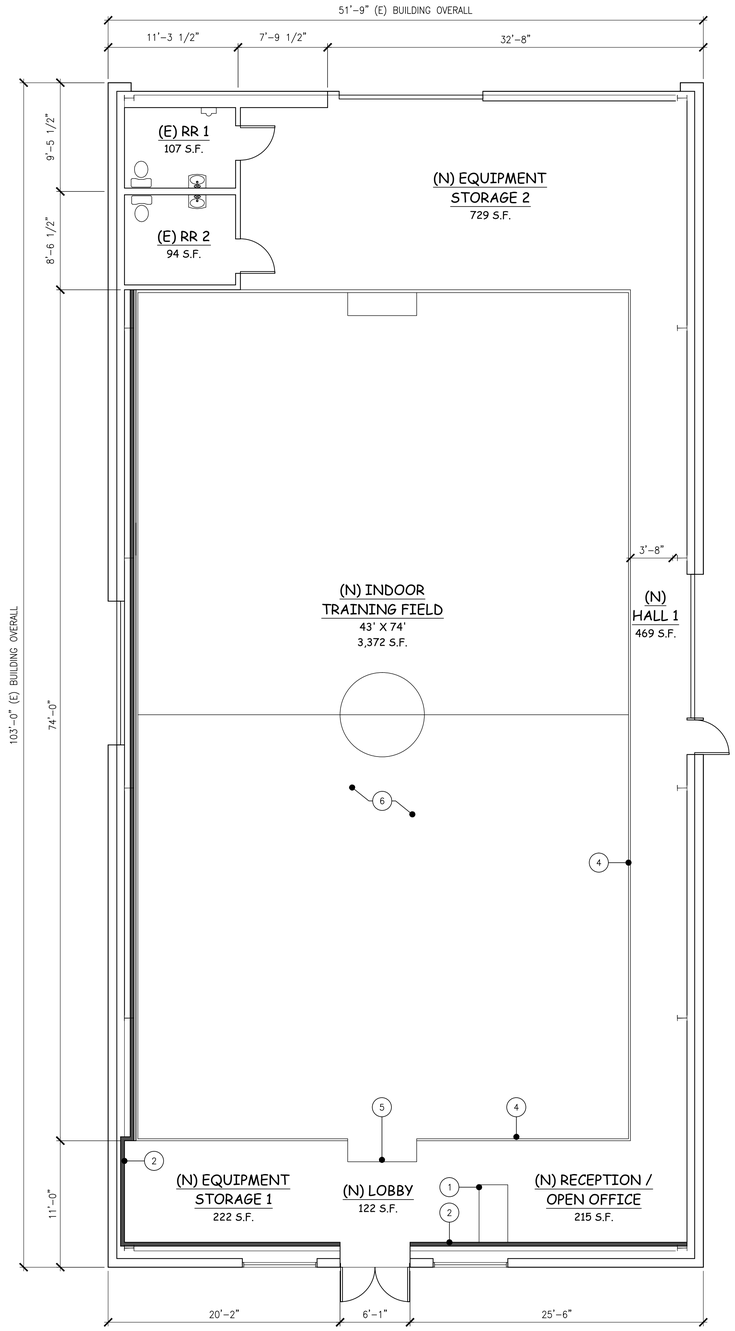
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Chkd By:
Date Printed: 3/7/2020

Job # 190916-01

A1



PROPOSED BUILDING 2 FLOOR PLAN
SCALE: 3/16"=1'-0" FILE: 2



PROPOSED BUILDING 1 FLOOR PLAN
SCALE: 3/16"=1'-0" FILE: 1

N

PLAN LEGEND:

- EXISTING WALL TO REMAIN
- EXISTING CMU WALL TO REMAIN
- NEW 8' HIGH FURRED WALL WITH PADDING (1)

PLAN KEYNOTES:

1. NEW CHECK-IN DESK
2. NEW 10' H FURRED WALL
3. NOT USED (1)
4. NEW 42" LOW WALL PANEL
5. NEW GOALIE
6. NEW SYNTHETIC TURF OVER CONCRETE SLAB
7. NEW NETTING OVER LOW WALL PANEL AT 10' HEIGHT
8. NEW GOAL POSTS
9. NEW INTERLOCKING RUBBER PADDING OVER CONCRETE SLAB ON GRADE
10. NEW ENCLOSURE AROUND EXISTING ELECTRICAL METER & SWITCHBOARD

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REVISIONS

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3	CUP AMENDMENT RESUBMITTAL	CW	3/9/20

CONSULTANTS:

CONDITIONAL USE PERMIT
AMENDMENT SUBMITTAL

PROJECT
B.E.S.A. SOCCER CENTER

Sheet Title
PROPOSED
BUILDINGS 1 & 2
FLOOR PLANS

Scale: 3/16" = 1'-0"
Drwn By: CW
Chkd By:
Date Printed: 3/7/2020
Job # 190916-01

A2

Exhibit C

BESA is requesting approval of tournaments to allow the athletes to further develop their skills. The tournaments will occur on a quarterly basis on the weekends only. The facility will not be opened to the public during tournament day.

Following is a sample BESA Friends Tournament Schedule:

Game times are 40 minutes total (20 minutes halves) with 5 players against 5 players on each field.

Field 1: Building 2 futsal field
Field 2: Outdoor soccer field

Teams:
Slammer FC, Legends, Strikers, Pats, Beach, CDA Slammers, Rising, Surf

	Bracket 1 Field 1	Bracket 2 Field 2
7:30 am	Slammers FC vs Surf	Strikers vs Beach
8:50 am	Legends vs Rising	Pats vs CDA Slammers
10:10 am	Beach vs Slammers FC	Surf vs Strikers
11:30 am	Legends vs CDA Slammers	Rising vs Beach
	Semi Final	
12:50 am	Slammers FC vs Beach	Surf vs Rising
	Final	
2:10 pm	Slammers FC vs Surf	

Parking Summary:
There will be 10 players, 2 coaches and 1 referee on each field with 3 employees with a total of 29 stalls used during each game. Total number of stalls provided is 46, therefore total number of open stalls during each game is 17. There will be a minimum of 40 minutes in between games for teams to exit and make room for the next game.

	Building 2	Outdoor Soccer Field	Employees	Total Number of People	Total Parking Provided	Total Parking Remain
	2 Groups of 5 Players with 2 Coaches & 1 Referee	2 Groups of 5 Players with 2 Coaches & 1 Referee	3		46	
First Round						
7:30 am - 8:10 am	13	13	3	29	46	17
8:50 am - 9:30 am	13	13	3	29	46	17
10:10 am - 10:50 am	13	13	3	29	46	17
11:30 am – 12:10 pm	13	13	3	29	46	17
Semi Final						
12:50 pm - 1:30 pm	13	13	3	29	46	17
Final						
2:10 pm - 2:50 pm		13	3	16	46	30

PUBLIC HEARING
Adoption of Mitigated Negative Declaration
Development Plan Approval Case No. 971
Amendment of Conditional Use Permit Case No. 780
Modification Permit Case No. 1325

Development Plan Approval Case No. 971: A request to demolish nine (9) existing single-story mini-warehouse buildings and replace them with a three-story, 97,503 sq. ft. mini-warehouse building.
Amendment of Conditional Use Permit Case No. 780: A request to amend the November 13, 2017 approval to increase the mini-warehouse facility use from 90,410 sq. ft. to 102,454 sq. ft.
Modification Permit Case No. 1325: A request to allow a 3'-5" projection into the required setbacks.

The project site is located at 13020 Telegraph Road (APN: 8011-014-017), within the M-2, Heavy Manufacturing Zone and within the Telegraph Road Corridor. (Ojai Oil Company dba Golden State Storage)

RECOMMENDATIONS

- Open the Public Hearing and receive any comments from the public regarding Development Plan Approval Case No. 971, Amendment of Conditional Use Permit Case No. 780, Modification Permit Case No. 1325, and related Environmental Documents and thereafter close the Public Hearing; and
- Find and determine that the proposed project will not be detrimental to persons or properties in the surrounding area or to the City in general, and will be in conformance with the overall purpose and objective of the Zoning Ordinance and consistent with the goals, policies and program of the City's General Plan; and
- Find that the applicant's request meets the criteria set forth in §155.739 of the Zoning Ordinance for the granting of Development Plan Approval; and
- Find that the applicant's request meets the criteria set forth in §155.716 of the Zoning Ordinance for the granting of a Conditional Use Permit; and
- Find that the applicant's request meets the criteria set forth in §155.695 and §155.696 of the Zoning Ordinance for the granting of a Modification Permit; and

RECOMMENDATIONS (Cont.)

- Approve and adopt the proposed Mitigated Negative Declaration which, based on the findings of the Initial Study, indicates that there is no substantial evidence that the proposed project will have a significant adverse effect on the environment; and
- Approve the proposed Mitigation Monitoring and Reporting Program (MMRP) for the proposed project; and
- Adopt Resolution No. 160-2020, which incorporates the Planning Commission's findings and actions regarding this matter.

GENERAL INFORMATION

A.	Applicant:	Ojai Oil Co. & TRO Co. 400 W. Ventura Blvd, Suite 100 Camarillo, CA 93010 (805) 388-5858 ext. 19
B.	Property Owner:	Ojai Oil Co. & TRO Co. 400 W. Ventura Blvd, Suite 100 Camarillo, CA 93010 (805) 388-5858 ext. 19
C.	Subject Property:	13020 Telegraph Road Santa Fe Springs, CA 90670
D.	Existing Zone:	M-2 (Heavy Manufacturing)
E.	General Plan:	Industrial
F.	CEQA Recommendation:	Mitigated Negative Declaration
G.	Hearing Date:	April 13, 2020
H.	Staff Contact:	Laurel Reimer, Planning Consultant laurelreimer@santafesprings.org Phone: (562)-868-0511 Ext 7354

BACKGROUND

The subject site is comprised of a single parcel (APN: 8011-014-017) measuring approximately 1.59-acres and located on the southeast corner of Telegraph Road and Shoemaker Avenue. The subject site is within the Telegraph Road Corridor,

zoned M-2, Heavy Manufacturing and has been utilized as a mini-warehouse facility since 1974.

Prior to 1974, "mini-warehouse" was not defined in the City's Zoning Ordinance. In July 1974, the City Council adopted interim Ordinance No. 461 to temporarily prohibit the construction of mini-warehouse facilities and directed staff to develop site development standards for mini-warehouse facilities.

In October 1974, the City Council adopted Ordinance No. 468 which amended the text of the Zoning Ordinance to (1) add a new definition for mini-warehouse to distinguish a mini-warehouse use from a regular warehouse use; (2) require Conditional Use Permit approval prior to the establishment of a mini-warehouse within the M-1 or M-2 zones; and (3) add special provisions, § 155.637(B), to restrict the size, location, and function of mini-warehouses. One provision of Ordinance No. 468 restricted mini-warehouses from occupying frontage on a freeway, major or secondary highway.

The owners of the subject property had already applied for building permits to construct a mini-warehouse facility prior to the adoption of either ordinance. Even though Telegraph Road is a major highway and Shoemaker Avenue is a Secondary Highway, the city allowed the project to continue since the applicant had initiated the process to construct a mini-warehouse prior to the ordinances going into effect. In fact, Section 7 of Ordinance No. 461 conditionally "excepted" the ordinance from applying to the subject property provided that the development comply with certain development criteria, which were memorialized in a 1974 agreement between the owner of the property (Los Feliz Investment Co. and Ojai Company) and the City. Development criteria from that agreement included:

1. The setback on Telegraph Road for all buildings and structures shall be 20 feet.
2. There shall be no outdoor storage unless it is completely screened from view from adjoining streets and adjoining properties.
3. The development shall provide adequate internal security to reduce the likelihood of theft or pilferage.
4. Site plans shall meet the requirements of the City's Fire Department as to adequate fire protection.
5. The required access aisles shall not be used for storage purposes.

A copy of the entire Agreement can be found as Attachment #2.

On September 28, 2017, City Council adopted Ordinance No. 1089 to amend the Zoning Ordinance to allow for mini-warehouses on properties occupying frontage on a freeway, major or secondary highway.

The project applicant has proposed several upgrades to the property since it was

first constructed in 1974, including a proposal in 2009 to replace the center buildings with a three-story building. For various reasons, those plans were abandoned. In March 2011, the applicant was granted Modification Permit No. 1214 to remodel the office, caretaker's apartment, and facades. The modification allowed for architecturally articulated walls to encroach two feet into the 20' front-yard setback area along Telegraph Road and to encroach two feet into the 10' side-yard setback area along Shoemaker Avenue. Corresponding drought-tolerant landscaping upgrades were also completed at that time. Most recently, the applicant received approval in November 2017 to demolish five interior single-story mini-warehouse buildings and replace them with a three-story, 75,275 sq. ft. building. The project did not move forward because the applicant opted to redesign the site with a larger building.

PROJECT DESCRIPTION

The proposed project requires approval of the following entitlements:

Development Plan Approval Case No. 971: A request to demolish nine (9) existing single-story mini-warehouse buildings and replace them with a three-story, 97,503 sq. ft. mini-warehouse building.

Amendment of Conditional Use Permit Case No. 780: A request to amend the November 13, 2017 approval to increase the mini-warehouse facility use from 90,410 sq. ft. to 102,454 sq. ft.

Modification Permit Case No. 1325: A request to allow a 3'-5" projection into the required setbacks.

DEVELOPMENT PLAN APPROVAL CASE NO. 971

Site Plan

The current site is comprised of nine single-story mini-warehouse buildings and a two-story caretaker's facility. The applicant is proposing to demolish the nine mini-warehouse buildings and replace them with a three-story, 97,503 sq. ft. mini-warehouse building and a 2,547 single-story storage building with trash enclosure. The existing 2,404 sq. ft. caretaker's facility will remain, for a total building area of 102,454 sq. ft.

The building will be set back at least 35'-4" from Telegraph Road and Shoemaker Avenue. The entire setback area will be landscaped. Access to the site will be provided by an existing 25'-wide driveway along Telegraph Road and a relocated 30'-wide driveway along Shoemake Avenue. Rolling gates near each driveway will restrict building access to ensure only those with storage units will be able to enter the building, however guests will be able to visit the office. The site will have fourteen parking stalls.

Floor Plan

The building's main entrance will be located in the center of the building's east elevation. A 37'-2" wide loading zone just outside the main entrance will provide easy access to two elevators located directly inside the main entrance. Two smaller entry doors located along the building's east elevation and one along the south elevation will provide additional access to the first floor. The building will have three stairwells located on the northeast, southeast and southwest corners of the building to provide access to the second and third floors. The stairwells will not be accessible from the first floor.

The first floor of the new building will measure 31,774 sq. ft. and have 186 storage units varying in size from 5' x 5' to 10' x 25'. The storage unit breakdown of the first floor is as follows:

Size	Amount	Percentage
5' x 5'	25	14%
5' x 10'	38	20%
10' x 10'	21	11%
10' x 15'	31	17%
10' x 20'	65	34%
10' x 25'	6	3%
TOTAL:	186	

The second floor will measure 33,044 sq. ft. and have 229 storage units varying in size from 5' x 5' to 10' x 20'. The storage unit breakdown for the second floor is as follows:

Size	Amount	Percentage
5' x 5'	35	16%
5' x 10'	55	24%
10' x 10'	38	16%
10' x 15'	59	26%
10' x 20'	42	18%
TOTAL:	229	

The third floor will measure 32,685 sq. ft. and have 211 storage units varying in size from 5' x 5' to 10' x 25'. The storage unit breakdown for the second floor is as follows:

Size	Amount	Percentage
5' x 5'	38	18%
5' x 10'	46	22%
10' x 10'	42	20%
10' x 15'	21	12%
10' x 20'	41	17%

10' x 25'	23	11%
TOTAL:	211	

Building J, a single-story storage building, will have nine units measuring 10' x 20' in size and a 36'-8" x 20' trash enclosure.

Building I, the existing office and caretaker's unit, will remain unchanged.

Roof Plan

The roofline will extend to a height of 34'-9" and the southwest, northwest, and northeast corners of the building will have square architectural elements that extend up to 38'-9". A 38'-9" rectangular mechanical screen in the center of the building will shield the elevators and HVAC equipment from view.

Elevations

The new three-story storage building will have numerous architectural elements to break up the building mass. The three street-facing corners will have wrap around storefront windows, awnings and height variation. Additional pop-outs, storefront windows and metal trellises and awnings will be added to the street-facing elevations.

Landscaping

The entire setback area totaling 15,030 sq. ft. will be landscaped with a diverse and colorful plant palate. Thirty-three trees will be planted.

AMENDMENT TO CONDITIONAL USE PERMIT CASE NO. 780

Golden State Storage is owned and operated by the Ojai Oil Company, which has been in the mini-warehouse industry since 1974. Ojai Oil Company owns and manages 17 mini-warehouse facilities, including 12 in Southern California and five in the Las Vegas, Nevada area.

Golden State Storage rents mini-warehouse units by the month or year to individuals and businesses. They provide secure storage for people in transit, and families or small businesses that need more room. Units are cleaned and maintained by an on-site manager who lives at the property to provide 24/7 site security. Storage units will range in size from 5' x 5' up to 10' x 25'. Individuals can access their storage units between 7am to 6pm daily. Staff members will man the office from 8am to 5pm Monday through Saturday, and from 10am to 5pm on Sundays.

Golden State Storage in Santa Fe Springs has operated with two or three employees for the past 46 years. They currently employ two people at the site and will add a third staff member when the new building opens.

Conditional Use Permit Case No. 780 was approved on November 13, 2017 to allow a mini-warehouse use up to 90,410 sq. ft. in size. The proposed request would increase the mini-warehouse use to 102,454 sq. ft. in size.

MODIFICATION PERMIT CASE NO. 1325

Per §155.248 of the Zoning Ordinance, the required front yard setback is one foot for each foot of the building height. The proposed building is 38'-9" at its tallest point, but the smallest provided setback is 35'-4", a 3'-5" projection into the required setback. Although the project does not meet the overall one-to-one setback requirement, the applicant designed the building to provide a setback equal to a one-to-one ratio for all portions of the building that exceed the normal setback.

STREETS AND HIGHWAYS

The subject property is located at the southeast corner of Shoemaker Avenue and Telegraph Road. Shoemaker Avenue is designated as a Secondary Highway within the Circulation Element of on the City's General Plan. Telegraph Road is designated as a Major Highway.

ZONING, GENERAL PLAN AND LAND USE

Zoning on the subject property and all surrounding properties is M-2, Heavy Manufacturing with a General Plan Land Use designation of Industrial.

LEGAL NOTICE OF PUBLIC HEARING

This matter was set for Public Hearing in accordance with the requirements of Sections 65090 and 65091 of the State Planning, Zoning and Development Laws and the requirements of Sections 155.860 through 155.864 of the City's Municipal Code.

Legal notice of the Public Hearing for the proposed project was sent by first class mail to all property owners whose names and addresses appear on the latest County Assessor's Roll within 500 feet of the exterior boundaries of the subject property on March 30, 2020. The legal notice was also posted in Santa Fe Springs City Hall and the City's Town Center on March 30, 2020, and published in a newspaper of general circulation (Whittier Daily News) on April 2, 2020, as required by the State Zoning and Development Laws and by the City's Zoning Ordinance. As of the date of this report, staff has not received any comments and/or inquiries regarding the proposed project.

It should be noted that due to the COVID-19 outbreak, Governor Newsome issued Executive Order N-25-20 on March 4, 2020 to temporarily suspend requirements of the Brown Act, which allows the City to hold public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise electronically to

all members of the public. All public hearing notices thus also clarified that the upcoming Planning Commission meeting will be held by teleconference since City Hall, including Council Chambers, is currently closed to the public.

The following link to the Zoom meeting, along with the meeting ID, password, and dial in information were also provided:

Electronically using Zoom
Go to Zoom.us and click on "Join A Meeting" or use the following link:
https://zoom.us/j/558333944?pwd=b0FqbkV2aDZneVRnQ3BjYU12SmJlQT09

Zoom Meeting ID: 558 333 944
Password: 554545

Telephonically
Dial: 888-475-4499
Meeting ID: 558 333 944

ENVIRONMENTAL DOCUMENTS

The environmental analysis provided in the Initial Study indicates that the proposed project will not result in any significant adverse immitigable impacts on the environment; therefore, the City caused to be prepared and proposes to adopt a Mitigated Negative Declaration (MND) for the proposed Project. The MND reflects the independent judgment of the City of Santa Fe Springs and the environmental consultant, Blodgett/Baylosis Environmental Planning, as to the potential environmental impacts of the proposed project on the environment.

The Draft Initial Study/Mitigated Negative Declaration was circulated for the required 20-day public review and comment period from March 6, 2020 to March 26, 2020. A Notice of Intent to Adopt a Mitigated Negative Declaration was posted with the Los Angeles County Clerk and a copy of the Initial Study/Mitigated Negative Declaration was also mailed to surrounding cities for their review and comment.

The draft Initial Study/Mitigated Negative Declaration identified several factors that may be potentially affected by the subject project which include: *Air Quality; Cultural Resources; Geology and Soils; Hazards and Hazardous Materials;* and *Hydrology and Water Quality.* These factors and their respective pertinent issues are discussed and analyzed within the Initial Study/Mitigated Negative Declaration. Mitigations, where necessary, were implemented to help ensure potential impacts are reduced to a less than significant level. A detailed analysis can be found in the Initial Study/Mitigated Negative Declaration.

The monitoring and reporting on the implementation of mitigation measures, including the monitoring action, monitoring agency, and the period for implementation, are identified in the Mitigation Monitoring and Reporting Program (Attachment #4). To date, staff has not received responses relating to the proposed Initial Study/Mitigated Negative Declaration.

AUTHORITY OF PLANNING COMMISSION:

Development Plan Approval

The Planning Commission has the authority, subject to the procedures set forth in the City's Zoning Ordinance, to grant a Development Plan Approval when it has been found that said approval is consistent with the requirements, intent and purpose of the City's Zoning Ordinance. The Commission may grant, conditionally grant or deny approval of a proposed development plan based on the evidence submitted and upon its own study and knowledge of the circumstances involved, or it may require submission of a revised development plan.

Conditional Use Permit

The Planning Commission has the authority, subject to the procedures set forth in the City's Zoning Ordinance, to grant a Conditional Use Permit whenever it finds that the granting of said permit is consistent with the requirements, intent and purpose of this chapter. The Commission may grant a Conditional Use Permit subject to such conditions as the Commission finds are warranted by the circumstances involved. This may include the dedication and development of streets adjoining the property and other improvements. All such conditions shall be binding upon the applicants, their successors and assigns; shall run with the land; shall limit and control the issuance and validity of certificates of occupancy; and shall restrict and limit the construction, location, use and maintenance of all land and structures within the development.

Modification Permit

The Planning Commission has the authority, subject to the procedures set forth in the City's Zoning Ordinance, to grant a modification from requirements of property development standards set forth in the City's Zoning Ordinance when it is found that the strict and literal interpretation of such provisions would cause undue difficulties and unnecessary hardships inconsistent with the intent and general purpose of the City's Zoning Ordinance. The Commission may grant, conditionally grant or deny a modification based on the evidence submitted and upon its own study and knowledge of the circumstances

STAFF REMARKS

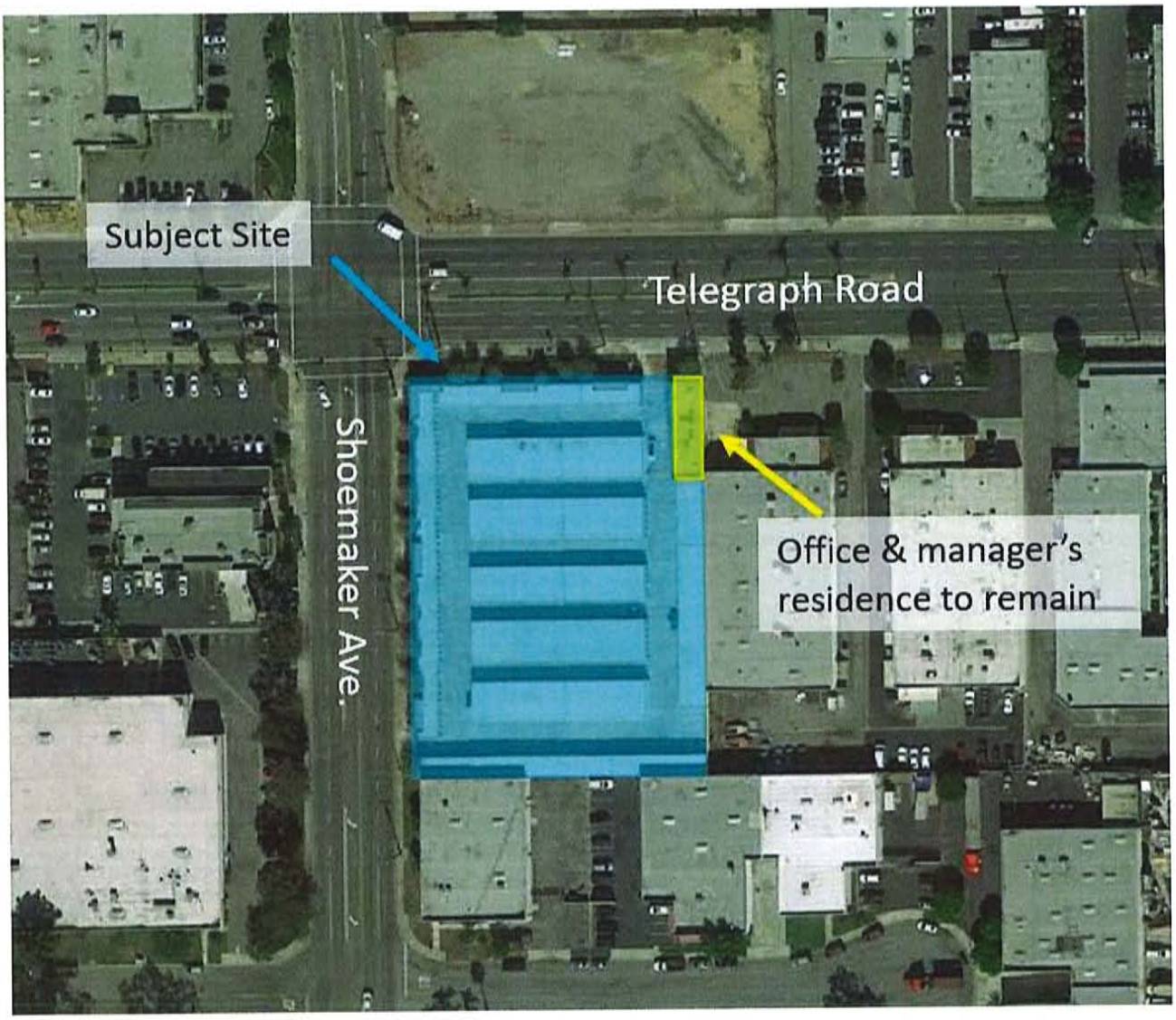
Based on the findings set forth in attached Resolution 160-2020, Staff finds that the applicant's request meets the criteria set forth in §155.739, §155.716, and §155.695 and §155.696 of the City's Zoning Ordinance for the granting of a Development

Plan Approval, Conditional Use Permit, and Modification Permit, respectively. Therefore, staff recommends that the Planning Commission adopt Resolution 160-2020, which incorporates the findings and conditions of approval related to the subject proposal.

Wayne M. Morrell
Director of Planning

Attachments:
1. Aerial Photograph
2. 1974 Agreement
3. Public Hearing Notice
4. Mitigation Monitoring and Reporting Program
5. Resolution 160-2020
    a. Exhibit A – Conditions of Approval
6. Project Plans

Attachment 1 - Aerial Photograph



Golden State Storage
13020 Telegraph Road

Attachment 2 – 1974 Agreement

OCT 01 2008

CARSON ARCHITECTS

A G R E E M E N T

THIS AGREEMENT is made and entered into between LOS FELIZ INVESTMENT CO. and OJAI COMPANY, corporations hereinafter for convenience referred to in the singular as "Owner," and the CITY OF SANTA FE SPRINGS, a general law city, situated in the County of Los Angeles, State of California, hereinafter sometimes referred to as "City."

This Agreement is made with reference to the following facts:

A. Owner has applied for a building permit for mini-warehouses on a parcel of land identified as 13020 Telegraph Road and legally described as follows:

The West half of Lot or Block 22, of Bannister's Addition to Santa Fe Springs, in the City of Santa Fe Springs, in the County of Los Angeles, State of California, as per map recorded in Book 23, Page 23, page 60, of Miscellaneous Records, in the office of the County Recorder of said County.

B. City, on July 11, 1974 adopted Ordinance No. 461, an Ordinance temporarily prohibiting the construction of mini-warehouse facilities in the City. Section 7 of said Ordinance No. 461 conditionally excepted said Ordinance from applying to the parcel above described, provided that the development of said parcel complied with certain criteria.

NOW, THEREFORE, for and in consideration of the issuance of a building permit by City for a mini-warehouse on said parcel of land in furtherance of the provisions of Ordinance No. 461, the parties hereto do agree that any mini-warehouse facilities erected on said parcel of land, including any additions, alterations or rebuilding, shall comply with the following:

1. The setback on Telegraph Road for all buildings and structures shall be 20 feet.

2. All mini-warehouse facilities shall be constructed of masonry or concrete exterior walls.

3. There shall be no outdoor storage unless it is completely screened from view from adjoining streets and adjoining properties.

Attachment 2 – 1974 Agreement (Cont.)

4. The development shall provide adequate internal security to reduce the likelihood of theft or pilferage.

5. Site plans shall meet the requirements of the City's Fire Department as to adequate fire protection.

6. There shall be no storage of materials not permitted by the type of structure or classification of occupancy as specified in City's Building Code and Fire Code.

7. The required access aisles shall not be used for storage purposes.

8. No part of the facility shall be converted to other usage unless and until prior written approval has been granted by City's Planning Commission and City Council.

9. Off-street parking, either covered or open, shall be provided to meet the requirements of City's Zoning Ordinance. If any of said required off-street parking is used for the storage of vehicles or other material, a sufficient number of legal off-street parking spaces shall be kept available to meet the parking needs generated by the mini-warehouse use. In the event the property is used for purposes other than mini-warehouses, all of the required off-street parking shall be made available to serve the new use. It is understood and agreed that the off-street parking requirements of City's Zoning Ordinance are paramount and that City may require that Owner cease using required off-street parking for storage purposes if such storage use results in an actual shortage of off-street parking to meet the needs generated by the mini-warehouse use.

10. Owner warrants that he is the legal owner of all of the land legally described in "A" above.

11. The Agreement shall run with the land and be binding upon any future owners, encumbrances, successors, heirs, or assigns of Owner and shall continue in effect unless otherwise released by authority of the City.

Attachment 2 – 1974 Agreement (Cont.)

IN WITNESS WHEREOF, the parties have hereunto set their hands the day and year set forth hereinabove.

CITY OF SANTA FE SPRINGS

by _____
Richard H. Weaver,
Director of Planning
and Development

LOS FELIZ INVESTMENT CO.

by _____
C. Douglas Off, Vice President

by _____
Theodore Off, Secretary-Treasurer

OJAI OIL COMPANY

by _____
Theodore Off, President

by _____
C. Douglas Off, Vice President

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss.

On November 6, 1974, before me, the undersigned, a Notary Public in and for said State personally appeared C. DOUGLAS OFF, Vice President and THEODORE OFF, Secretary-Treasurer of the corporation that executed the within Instrument, known to me to be the persons who executed the within Instrument on behalf of the corporation therein named, and acknowledged to me that such corporation executed the within instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS MY HAND and official seal.

Ann Ledmore
Notary Public



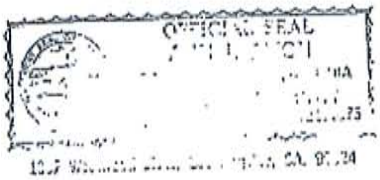
Attachment 2 – 1974 Agreement (Cont.)

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss.

On November 6, 1974 before me, the undersigned, a Notary Public in and for said State, personally appeared THEODORE OFF, known to me to be the President and C. DOUGLAS OFF, known to me to be the Vice President of the corporation that executed the within Instrument, known to me to be the persons who executed the within Instrument on behalf of the corporation therein named, and acknowledged to me that such corporation executed the within instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS MY HAND and official seal.

Ann Leamon
Notary Public



STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss.

On _____, before me, the undersigned, a Notary Public in and for said State, personally appeared RICHARD H. WEAVER, known to me to be the Director of Planning and Development of the municipal corporation that executed the within instrument on behalf of the municipal corporation therein named, and acknowledged to me that such municipal corporation executed the within instrument pursuant to the authority granted it by its City Council.

WITNESS MY HAND and official seal.

_____
Notary Public

Attachment 3 –Public Hearing Notice

FILE COPY

CITY OF SANTA FE SPRINGS
11710 Telegraph Road CA 90670-3679 (562) 868-0511 Fax (562) 868-7112 www.santafesprings.org
"A great place to live, work, and play"

NEOPOST FIRST-CLASS MAIL
03/30/2020 US POSTAGE $000.00[2]
ZIP 90670 041L11257783

CITY OF SANTA FE SPRINGS
NOTICE OF PUBLIC HEARING
DEVELOPMENT PLAN APPROVAL CASE NO. 971
AMENDMENT OF CONDITIONAL USE PERMIT CASE NO. 780
MODIFICATION PERMIT CASE NO. 1325

NOTICE IS HEREBY GIVEN that the Planning Commission of the City of Santa Fe Springs will hold a Public Hearing to consider the following:

DEVELOPMENT PLAN APPROVAL CASE NO. 971 – To demolish eight (8) single-story mini-warehouse buildings and replace with a three-story, 97,503 sq. ft. mini-warehouse building.

AMENDMENT OF CONDITIONAL USE PERMIT CASE NO. 780 – To amend a November 13, 2017 approval to increase the mini-warehouse facility use from 90,410 sq. ft. to 102,454 sq. ft.

MODIFICATION PERMIT CASE NO. 1325 – To allow a 2'-11" projection into the required setbacks.

PROJECT SITE: 13020 Telegraph Road (APN 8011-014-017) within in the M-2 (Heavy Manufacturing) Zone and Telegraph Road Corridor

APPLICANT: Ojai Oil Company dba Golden State Storage

THE HEARING will be held on **Monday, April 13, 2020 at 6:00 p.m.** Governor Newsom issued Executive Order N-25-20 on March 4, 2020 to temporarily suspend requirements of the Brown Act, which allows the City to hold public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise electronically to all members of the public. Please be advised that until further notice, Planning Commission meetings will be held by teleconference. City Hall, including Council Chambers, is closed to the public.

You may attend the meeting telephonically or electronically using the following means:

Electronically using Zoom
Go to Zoom.us and click on "Join A Meeting" or use the following link:
https://zoom.us/j/558333944?pwd=b0FqbkV2aDZneVRnQ3BjYU12SmJlQT09

Zoom Meeting ID: 558 333 944

William K. Rounds, Mayor • John M. Mora, Mayor Pro Tem
City Council
Annette Rodriguez • Juanita Trujillo • Joe Angel Zamora
City Manager
Raymond R. Cruz

Report Submitted By: Laurel Reimer
Planning and Development Department

Date of Report: April 6, 2020

Attachment 3 – Public Hearing Notice (Cont.)

Password: 554545

Telephonically
Dial: 888-475-4499
Meeting ID: 558 333 944

CEQA STATUS: A Notice of Intent to adopt Initial Study/Mitigated Negative Declaration was posted in the LA County Recorder's Office. The mandatory 20-day public review period began on March 6, 2020 and ended on March 26, 2020. The project site is not listed on the Hazardous Waste and Substance Site List (Cortese List) as set forth in Government Code Section 65962.5.

ALL INTERESTED PERSONS are invited to participate in the Planning Commission hearing and express their opinion on the item listed above. Please note that if you challenge the afore-mentioned item in court, you may be limited to raising only those issues raised at the Public Hearing, or in written correspondence received prior to the Public Hearing.

PUBLIC COMMENTS may be submitted in writing to the Planning Program Assistant at teresacavallo@santafesprings.org. Please submit your written comments by 4:00 p.m. on the day of the Planning Commission meeting. You may also contact the Planning Department at (562) 868-0511 ext. 7550.

FURTHER INFORMATION on this item may be obtained by e-mail: laurelreimer@santafesprings.org.

Wayne M. Morrell
Director of Planning
City of Santa Fe Springs
11710 Telegraph Road
Santa Fe Springs, CA 90670

William K. Rounds, Mayor • John M. Mora, Mayor Pro Tem
City Council
Annette Rodriguez • Juanita Trujillo • Joe Angel Zamora
City Manager
Raymond R. Cruz

Attachment 4 – Mitigation Monitoring and Reporting Program

MITIGATION MONITORING & REPORTING PROGRAM

GOLDEN STATE STORAGE EXPANSION
DEVELOPMENT PLAN APPROVAL (DPA) NO. 971, CONDITIONAL USE PERMIT (CUP) NO. 780 & ZONING MODIFICATION NO. 1325
13020 TELEGRAPH ROAD
SANTA FE SPRINGS, CALIFORNIA



LEAD AGENCY:

CITY OF SANTA FE SPRINGS
PLANNING AND DEVELOPMENT DEPARTMENT
11710 TELEGRAPH ROAD
SANTA FE SPRINGS, CALIFORNIA 90670

REPORT PREPARED BY:

BLODGETT BAYLOSIS ENVIRONMENTAL PLANNING
2211 S. HACIENDA BOULEVARD, SUITE 107
HACIENDA HEIGHTS, CALIFORNIA 91745

APRIL 6, 2020

SFSP 066

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MITIGATION MONITORING & REPORTING PROGRAM

INTRODUCTION & FINDINGS

The Initial Study determined that the proposed project is not expected to have any significant adverse environmental impacts. The following findings can be made regarding the Mandatory Findings of Significance set forth in Section 15065 of the CEQA Guidelines based on the results of this Initial Study:

- The proposed project *will not* have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of an endangered, rare or threatened species or eliminate important examples of the major periods of California history or prehistory.
- The proposed project *will not* have impacts that are individually limited, but cumulatively considerable.
- The proposed project *will not* have environmental effects which will cause substantially adverse effects on human beings, either directly or indirectly.

In addition, pursuant to Section 21081(a) of the Public Resources Code, findings must be adopted by the decision-maker coincidental to the approval of a Mitigated Negative Declaration, which relates to the Mitigation Monitoring Program. These findings shall be incorporated as part of the decision-maker's findings of fact, in response to AB-3180 and in compliance with the requirements of the Public Resources Code. In accordance with the requirements of Section 21081(a) and 21081.6 of the Public Resources Code, the City of Santa Fe Springs can make the following additional findings:

- A mitigation reporting or monitoring program will be required; and,
- An accountable enforcement agency or monitoring agency shall be identified for the mitigation measures adopted as part of the decision-maker's final determination.

A number of mitigation measures have been recommended as a means to reduce or eliminate potential adverse environmental impacts to insignificant levels. AB-3180 requires that a monitoring and reporting program be adopted for the recommended mitigation measures.

SUMMARY OF MITIGATION MEASURES

The following mitigation is required as part of this project to ensure that potential air quality impacts are mitigated:

> *Mitigation Measure No. 1 (Air Quality).* To ensure that odors from diesel equipment are kept to a minimum, the project contractors shall ensure that all diesel trucks and equipment are not left to idle for longer than five minutes.

The following mitigation is required due to the potential for disturbance of archaeological resources:

Mitigation Measure No. 2 (Cultural Resources). The project Applicant will be required to obtain the services of a qualified Native American Monitor(s) during construction-related ground disturbance activities. Ground disturbance is defined by the Tribal Representatives from the Gabrieleño Band of Mission Indians, Kizh Nation as activities that include, but are not limited to, pavement removal, pot-holing or auguring, boring, grading, excavation, and trenching, within the project area. The monitor(s) must be approved by the tribal representatives and will be present on-site during the construction phases that involve any ground-disturbing activities.

The following mitigation measure is required as a means to ensure the application of the geotechnical recommendations set forth by Gorian & Associates, Inc.:

Mitigation Measure No. 3 (Geology & Soils). All recommendations set forth by Gorian & Associates, Inc. within the *Geotechnical Site Evaluation and Report Update, Proposed Three-Story Structure, Golden State Storage, 13020 Telegraph Rd, Santa Fe Springs, California,* dated August 2017, must be enforced and followed by the project applicant and the project contractors. Specifications must be outlined within construction plans.

The following mitigation measure is required to further prevent foundation damage:

Mitigation Measure No. 4 (Geology & Soils). Prior to the commencement of construction related activities, the project structural engineer must determine the nature and extent of foundation and construction elements required to address potential expansive soil impacts. The project contractors will be required to comply with the structural engineer's recommendations.

The following mitigation is required to ensure that potential impacts are reduced to levels that are less than significant:

Mitigation Measure No. 5 (Hazards & Hazardous Materials). An ACM/LBP survey shall be completed prior to the building demolition to assess the occurrence of these hazardous materials. Pursuant to Federal and State regulations, all suspect ACMs should either be presumed to contain asbestos or adequate rebuttal sampling should be conducted by an accredited Building Inspector prior to renovation, including maintenance, or demolition if these activities will disturb these material(s). In addition, an *Asbestos Operations and Maintenance Program* should be implemented by the owner to manage the suspect ACMs in-place, and required notices should be provided to tenants, employees and contractors.

Mitigation Measure No. 6 (Hazards & Hazardous Materials). The Applicant and the contractors must adhere to all requirements governing the handling, removal, and disposal of asbestos-containing materials, lead paint, underground septic tanks, and other hazardous substances and materials that may be encountered during demolition and land clearance activities. Documentation as to the amount, type, and evidence of disposal of materials at an appropriate hazardous material landfill site shall be provided to the Chief Building Official prior to the issuance of any building permits. Any contamination encountered during the demolition, grading, and/or site preparation activities must also be removed and disposed in accordance with applicable laws prior to the issuance of any building permit.

The following mitigation is required as part of the proposed project's implementation to ensure potential water quality impacts are mitigated:

> *Mitigation Measure No. 7 (Hydrology and Water Quality).* The Applicant shall prepare and implement a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP shall be submitted to the Chief Building Official and City Engineer prior to the issuance of a grading permit. The Applicant shall register their SWPPP with the State of California. A copy of the current SWPPP shall be kept at the project sites and be available for review on request.

MITIGATION MONITORING MATRIX

The monitoring and reporting for the mitigation measures, including the period for implementation, monitoring agency, and the monitoring action, are identified below in Table 1.

Table 1
Mitigation Monitoring Program

Measure	Enforcement Agency	Monitoring Phase	Verification
Mitigation Measure No. 1 (Air Quality). To ensure that odors from diesel equipment are kept to a minimum, the project contractors shall ensure that all diesel trucks and equipment are not left to idle for longer than five minutes.	City of Santa Fe Springs Planning and Development Department and the SCAQMD ● *(The Applicant is responsible for implementation)*	*During the project's construction phase.* ● Mitigation ends when construction is completed.	Date: Name & Title:
Mitigation Measure No. 2 (Cultural Resources). The project Applicant will be required to obtain the services of a qualified Native American Monitor(s) during construction-related ground disturbance activities. Ground disturbance is defined by the Tribal Representatives from the Gabrieleño Band of Mission Indians, Kizh Nation as activities that include, but are not limited to, pavement removal, pot-holing or auguring, boring, grading, excavation, and trenching, within the project area. The monitor(s) must be approved by the tribal representatives and will be present on-site during the construction phases that involve any ground-disturbing activities.	City of Santa Fe Springs Planning and Development Department and the Los Angeles County Natural History Museum (LACNHM) ● *(The Applicant is responsible for implementation)*	*Prior to the start of any construction related activities.* ● Mitigation ends when ground disturbance is completed or otherwise noted by the appointed Native American Monitor(s).	Date: Name & Title:
Mitigation Measure No. 3 (Geology & Soils). All recommendations set forth by Gorian & Associates, Inc. within the *Geotechnical Site Evaluation and Report Update, Proposed Three-Story Structure, Golden State Storage, 13020 Telegraph Rd, Santa Fe Springs, California,* dated August 2017, must be enforced and followed by the project applicant and the project contractors. Specifications must be outlined within construction plans.	City of Santa Fe Springs Planning and Development Department and the City Engineer ● *(The Applicant is responsible for implementation)*	*Prior to the issuance of any Building Permits* ● Mitigation ends at the completion of the construction phase.	Date: Name & Title:

Table 1
Mitigation Monitoring Program

Measure	Enforcement Agency	Monitoring Phase	Verification
Mitigation Measure No. 4 (Geology & Soils). Prior to the commencement of construction related activities, the project structural engineer must determine the nature and extent of foundation and construction elements required to address potential expansive soil impacts. The project contractors will be required to comply with the structural engineer's recommendations.	City of Santa Fe Springs Planning and Development Department and the City Engineer ● *(The Applicant is responsible for implementation)*	*Prior to the issuance of any Building Permits* ● Mitigation ends at the completion of the construction phase.	Date: Name & Title:
Mitigation Measure No. 5 (Hazards & Hazardous Materials). An ACM/LBP survey shall be completed prior to the building demolition to assess the occurrence of these hazardous materials. Pursuant to Federal and State regulations, all suspect ACMs should either be presumed to contain asbestos or adequate rebuttal sampling should be conducted by an accredited Building Inspector prior to renovation, including maintenance, or demolition if these activities will disturb these material(s). In addition, an *Asbestos Operations and Maintenance Program* should be implemented by the owner to manage the suspect ACMs in-place, and required notices should be provided to tenants, employees and contractors.	City of Santa Fe Springs Planning and Development Department ● *(The Applicant is responsible for implementation)*	*Prior to demolition of existing buildings.* ● Mitigation ends when surveys are complete.	Date: Name & Title:
Mitigation Measure No. 6 (Hazards & Hazardous Materials). The Applicant and the contractors must adhere to all requirements governing the handling, removal, and disposal of asbestos-containing materials, lead paint, underground septic tanks, and other hazardous substances and materials that may be encountered during demolition and land clearance activities. Documentation as to the amount, type, and evidence of disposal of materials at an appropriate hazardous material landfill site shall be provided to the Chief Building Official prior to the issuance of any building permits. Any contamination encountered during the demolition, grading, and/or site preparation activities must also be removed and disposed in accordance with applicable laws prior to the issuance of any building permit.	City of Santa Fe Springs Planning and Development Department and Chief Building Official ● *(The Applicant is responsible for implementation)*	*Prior to the issuance of any building permits* ● Mitigation ends at the completion of the construction phase.	Date: Name & Title:
Mitigation Measure No. 7 (Hydrology & Water Quality). The Applicant shall prepare and implement a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP shall be submitted to the Chief Building Official and City Engineer prior to the issuance of a grading permit. The Applicant shall register their SWPPP with the State of California. A copy of the current SWPPP shall be kept at the project sites and be available for review on request.	City of Santa Fe Springs Planning and Development Department, City Engineer, and Chief Building Official ● *(The Applicant is responsible for implementation)*	*Prior to issuance of a grading permit.* ● Mitigation ends upon the submittal and approval of the SWPP.	Date: Name & Title:

Attachment 5 – Resolution 160-2020

CITY OF SANTA FE SPRINGS
RESOLUTION NO. 160-2020

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SANTA FE SPRINGS REGARDING DEVELOPMENT PLAN APPROVAL CASE NO. 971, AMENDMENT TO CONDITIONAL USE PERMIT CASE NO. 780, AND MODIFICATION PERMIT CASE NO. 1325

WHEREAS, a request was filed for Development Plan Approval Case No. 971 to demolish nine (9) existing single-story mini-warehouse buildings and replace them with a three-story, 97,503 sq. ft. mini-warehouse building on property located within the M-2, Heavy Manufacturing, Zone; and

WHEREAS, a request was concurrently filed for Amendment to Conditional Use Permit Case No. 780 to amend the November 13, 2017 approval to increase the mini-warehouse facility use from 90,410 sq. ft. to 102,454 sq. ft.; and

WHEREAS, a request was concurrently filed for Modification Permit Case No. 1325 to allow a 3'-5" projection into the front yard setback; and

WHEREAS, the subject property is located at the southeast corner of Telegraph Road and Shoemaker Avenue, with Accessor's Parcel Number 8011-014-017, as shown in the latest rolls of the Los Angeles County Office of the Assessor; and

WHEREAS, the property owner is Ojai Oil Co. & TRO Co, 400 W. Ventura Blvd, Suite 100, Camarillo, CA 93010; and

WHEREAS, the proposed development which includes Development Plan Approval Case No. 971, Amendment to Conditional Use Permit Case No. 780, and Modification Permit Case No. 1325 is considered a project as defined by the California Environmental Quality Act (CEQA), Article 20, Section 15378(a); and

WHEREAS, based on the information received from the applicant and staff's assessment, it was found and determined that the proposed project will not have a significant adverse effect on the environmental following mitigation, therefore, the City caused to be prepared and proposed to adopt an Initial Study/Mitigated Negative Declaration for the proposed project; and

WHEREAS, the City of Santa Fe Springs Planning and Development Department on April 2, 2020 published a legal notice in the *Whitter Daily News,* a local paper of general circulation, indicating the date and time of the public hearing, and also mailed said public hearing notice on March 30, 2020 to each property owner within a 500-foot radius of the project site in accordance with state law; and

WHEREAS, the City of Santa Fe Springs Planning Commission has considered the application, the written and oral staff report, the General Plan and zoning of the subject property, the testimony, written comments, or other materials presented at the Planning

Commission Meeting on April 13, 2020 concerning Development Plan Approval Case No. 971, Amendment to Conditional Use Permit Case No. 780, and Modification Permit Case No. 1325.

NOW, THEREFORE, be it RESOLVED that the PLANNING COMMISSION of the CITY OF SANTA FE SPRINGS does hereby RESOLVE, DETERMINE and ORDER AS FOLLOWS:

SECTION I. ENVIRONMENTAL FINDINGS AND DETERMINATION

The proposed development is considered a project under the California Environmental Quality Act (CEQA) and as a result, the project is subject to the City's environmental review process. The environmental analysis provided in the Initial Study indicated that the proposed project will not result in any significant adverse immitigable impacts to the environment, therefore, the City required the preparation and adoption of a Mitigated Negative Declaration (MND) for the proposed Project. The MND reflects the independent judgment of the City of Santa Fe Springs, and the environmental consultant, Blodgett/Baylosis Environmental Planning.

The Initial Study determined that the proposed project is not expected to have any significant adverse environmental impacts. The following findings can be made regarding the Mandatory Findings of Significance set forth in Section 15065 of the CEQA Guidelines based on the results of this Initial Study:

- The proposed project *will not* have the potential to degrade the quality of the environment.
- The proposed project *will not* have the potential to achieve short-term goals to the disadvantage of long-term environmental goals.
- The proposed project *will not* have impacts that are individually limited, but cumulatively considerable, when considering planned or proposed development in the immediate vicinity.
- The proposed project *will not* have environmental effects that will adversely affect humans, either directly or indirectly.

In addition, pursuant to Section 21081(a) of the Public Resources Code, findings must be adopted by the decision-maker coincidental to the approval of a Mitigated Negative Declaration, which relates to the Mitigation Monitoring Program. These findings shall be incorporated as part of the decision-maker's findings of fact, in response to AB-3180 and in compliance with the requirements of the Public Resources Code. In accordance with the requirements of Section 21081(a) and 21081.6 of the Public Resources Code, the City of Santa Fe Springs can make the following additional findings:

- A mitigation reporting or monitoring program will be required; and,
- An accountable enforcement agency or monitoring agency shall be identified for the mitigation measures adopted as part of the decision-maker's final determination.

A number of mitigation measures have been recommended as a means to reduce or eliminate potential adverse environmental impacts to insignificant levels. AB-3180 requires that a monitoring and reporting program be adopted for the recommended mitigation measures.

SECTION II. DEVELOPMENT PLAN APPROVAL FINDINGS

Pursuant to Section 155.739 of the City of Santa Fe Springs Zoning Ordinance, the Planning Commission shall consider the following findings in their review and determination of the subject Development Plan Approval. Based on the available information, the City of Santa Fe Springs Planning Commission hereby make the following findings:

A) *That the proposed development is in conformance with the overall objectives of this chapter.*

The proposed project is located within the M-2, Heavy Manufacturing, Zone. Pursuant to Section 155.240 of the Zoning Ordinance, "The purpose of the M-2 Zone is to preserve the lands of the city appropriate for heavy industrial uses, to protect these lands from intrusion by dwellings and inharmonious commercial uses, to promote uniform and orderly industrial development, to create and protect property values, to foster an efficient, wholesome and aesthetically pleasant industrial district, to attract and encourage the location of desirable industrial plants, to provide an industrial environment which will be conducive to good employee relations and pride on the part of all citizens of the community and to provide proper safeguards and appropriate transition for surrounding land uses."

The proposed project is consistent with the purpose of the M-2 Zone in the following manner:

1. The land is appropriate for industrial uses based on its zoning, M-2, Heavy Manufacturing, and its General Plan Land Use designation of Industrial.
2. The subject site has been utilized as a mini-warehouse facility since 1974.
3. The proposed project complies with all development standards set forth in the M-2 Zone.
4. The project involves the construction of a modern, attractive building on a site that is currently developed with an outdated mini-warehouse facility. The assessed value of the property will improve after the project, thus leading to an increase in property values for both the subject property and neighboring properties.

B) *That the architectural design of the proposed structures is such that it will enhance the general appearance of the area and be in harmony with the intent of this chapter.*

The applicant is planning to build a new contemporary building to replace outdated buildings. The building will feature multiple variations in height, setback, materials

and color. The result is an attractive project with a contemporary building that is comparable to other high-quality projects in Santa Fe Springs.

In addition, as proposed, the project meets or exceeds all requirements of the City's Zoning Ordinance. The project's overall compliance validates that it is in harmony with the overall intent of the City's Zoning Ordinance.

C) *That the proposed structures be considered on the basis of their suitability for their intended purpose and on the appropriate use of materials and on the principles of proportion and harmony of the various elements of the buildings or structures.*

The design of the new building provides quality architectural design as demonstrated by glazing, pop-outs, and variations in height, materials, and color. These architectural design elements break up the mass of the building and present an attractive, distinctive façade to visitors. As designed, the new building is suitable for its intended mini-warehouse use, and the distinctive design of the building represents the architectural principles of proportion and harmony.

D) *That consideration be given to landscaping, fencing and other elements of the proposed development to ensure that the entire development is in harmony with the objectives of this chapter.*

Extensive consideration has been given to numerous elements of the proposed project to achieve harmony with the City's Zoning Ordinance. Extensive landscaping will be provided along the street frontages for maximum aesthetic value. The loading area is tucked under the building to minimize visibility from passing cars. Lastly, the proposed trash enclosure is not visible or easily accessible by the public and will have minimal impact on adjacent properties.

E) *That it is not the intent of this subchapter to require any particular style or type of architecture other than that necessary to harmonize with the general area.*

As stated previously, the proposed building is contemporary in design. The architect used variations in setback, materials, height and color. The style and architecture of the proposed building is consistent with other high-quality buildings in the general area.

F) *That it is not the intent of this subchapter to interfere with architectural design except to the extent necessary to achieve the overall objectives of this chapter.*

Pursuant to Section 155.736 of the Zoning Ordinance, "The purpose of the development plan approval is to assure compliance with the provisions of this chapter and to give proper attention to the siting of new structures or additions or alterations to existing structures, particularly in regard to unsightly and undesirable appearance, which would have an adverse effect on surrounding properties and the community in general." The proposed mini-warehouse building will replace nine outdated single-story buildings. The Planning Commission believes that proper attention has been given to the location, size, and design of the proposed

buildings. The Planning Commission, therefore, finds that the new contemporary mini-warehouse facility is well-designed and thus will be an enhancement to the overall area.

SECTION III. CONDITIONAL USE PERMIT FINDINGS

Pursuant to Section 155.716 of the Zoning Ordinance, in studying any application for conditional use permit, the Commission shall give consideration to the following:

A) *Satisfy itself that the proposed use will not be detrimental to persons or property in the immediate vicinity and will not adversely affect the city in general.*

The subject site is located within the M-2 (Heavy Manufacturing) Zone and has a General Plan land use designation of Industrial. A mini-warehouse facility use is consistent with the current zoning and land use designation. Additionally, the project site is generally surrounded by various industrial, office, and warehouse uses, which would be compatible with a mini-warehouse facility use. The subject site has also been utilized as a mini-warehouse facility since 1974 (over 46 years) without complaint.

If conducted in strict compliance with the conditions of approval and the City's municipal code, staff finds that the proposed expansion of the mini-warehouse facility use will be harmonious with adjoining properties and surrounding uses in the area and therefore will not be detrimental to persons or property in the immediate vicinity.

B) *Give due consideration to the appearance of any proposed structure and may require revised architectural treatment if deemed necessary to preserve the general appearance and welfare of the community.*

The proposed three-story mini-warehouse building has been designed with multiple variations in height, setback, materials and color. The style and architecture of the proposed building is consistent with other high-quality buildings in the general area. Staff, therefore, finds that the proposed improvements will preserve the general appearance and welfare of the community.

SECTION IV. MODIFICATION PERMIT FINDINGS

Pursuant to Section 155.695 of the City of Santa Fe Springs Zoning Ordinance, the Planning Commission shall consider the following findings in their review and determination of the subject Modification Permit. Based on the available information, the City of Santa Fe Springs Planning Commission hereby make the following findings:

A) *That the granting of the modification would not grant special privileges to the applicant not enjoyed by other property owners in the area.*

The Planning Commission would not be granting special privileges to the applicant since similar requests have been granted in the past. The chart provided below

identifies similar Modification Permits granted for a setback reduction to a corner property.

Previous Setback Modifications

Case No.	Site Address	Request	Date
MOD 1293-1296	SW corner of Dice & Burke	Setback Reduction	October 2018
MOD 1263	9211 Sorensen Av	Setback Reduction	August 2016
MOD 1270	12636 Los Nietos Rd	Setback Reduction	July 2016
MOD 1266	9102 & 9046 Dice Rd	Setback Reduction	May 2016

B) *That the subject property cannot be used in a reasonable manner under the existing regulations.*

Although the building height for the proposed building could technically be reduced to align with the provided setback, doing so would make the building less visually attractive since the elements of the building that extend beyond 35'-4" are simply architectural features used to enhance the buildings design and curb appeal.

C) *That the hardship involved is due to unusual or unique circumstances.*

The unusual or unique circumstance related to the subject property is the fact that it is located on a corner. Having two frontages means the building requires a substantially greater setback compared to a standard interior lot that has only one street frontage. The building envelope, or otherwise developable area, for a corner lot is generally much smaller than a typical interior lot.

D) *That the modifications, if granted, would not be detrimental to other persons or properties in the area nor be detrimental to the community in general.*

The modification permit, if granted, would not be detrimental to other persons or properties in the area. The proposed project will provide a much larger setback than what currently existing on site. Additionally, although the proposed building does not provide the required setback at a one-to-one ratio of the overall building height, the applicant does provide a setback equal to a one-to-one ratio for the portions of the subject building that exceeds the normal setback.

In addition, pursuant to Section 155.696 of the City's Zoning Ordinance, the Commission shall also take into consideration the following factors in making a determination as to whether or not there are practical difficulties or hardships involved:

A) That there are particular physical circumstances due to the shape or condition of the property which result in a hardship under the existing regulations, as distinguished from a mere inconvenience.

The unusual or unique circumstance related to the subject property is the fact that it is located on a corner. Having two frontages means the building requires a substantially greater setback compared to a standard interior lot that has only one

street frontage. The building envelope, or otherwise developable area, for a corner lot is generally much smaller than a typical interior lot, which makes it challenging to design a project that is marketable and meets all requirements of the Zoning Ordinance. The hardships mentioned are therefore directly related to the property's physical circumstance and not just a mere inconvenience.

B) That the purpose of the modification is not based exclusively on the financial advantage to the owner.

As mentioned previously, elements that extend beyond 35'-4" are simply architectural features used to enhance the buildings design and curb appeal. Specifically, the taller building height allows for height variations which provide for a more attractive project. If the applicant eliminated the architectural features that extend above 35'-4" to meet the City's Zoning Ordinance, the proposed building would lack height variation and, as a result, would appear very box-like and thus less attractive.

C) That the alleged difficulties were not created by any person presently having an interest in the property.

As mentioned previously, because the subject property is located on a corner lot, it is more difficult to develop a project that meets all required development standards when compared to a standard interior lot. The circumstance is directly related to the property's physical circumstance and was not created by the applicant or any person having an interest in the property.

D) That the conditions involved are not generally applicable to most of the surrounding properties.

Most of the surrounding properties are interior lots or properties that have already been developed with buildings that do not conform with setback requirements. The northwest and southwest corners adjacent to the site utilize the setback area for parking, and the northeast corner is vacant.

E) That the requested modification would not diminish property values in the neighborhood

The requested modification, if approved, will allow for additional architectural features and height variations that will result in a more attractive building than if the building height were restricted to 35'-4". As such, allowing minor deviations to the setback regulations would not diminish property values in the neighborhood, rather it would result in a more attractive project that would be an enhancement to the both the undeveloped site and overall area.

F) That the requested modification will not increase congestion or endanger the public safety.

The proposed modification will not increase congestion or endanger the public safety. The facility is currently utilized as a mini-warehouse and traffic generated from a mini-warehouse use is minimal, as detailed in the Mitigated Negative Declaration that was prepared for the project.

It should be noted that the project will be in fully compliance with all parking requirements and it provides well-designed circulation that includes adequate fire department access throughout the site, therefore, ensuring the overall safety of future visitors and/or employees of the site.

SECTION V. PLANNING COMMISSION ACTION

The Planning Commission hereby adopts Resolution No. 160-2020 to approve Development Plan Approval Case No. 971 to demolish nine (9) existing single-story mini-warehouse buildings and replace them with a three-story, 97,503 sq. ft. mini-warehouse building; and approve Amendment to Conditional Use Permit Case No. 780 to amend the November 13, 2017 approval to increase the mini-warehouse facility use from 90,410 sq. ft. to 102,454 sq. ft.; and approve Modification Permit Case No. 1325 to allow a 3'-5" projection into the front yard setback; and also to approve and adopt the proposed Initial Study/Mitigated Negative Declaration, and Mitigation Monitoring and Reporting Program for the subject property located 13020 Telegraph Road, subject to conditions attached hereto as Exhibit A.

ADOPTED and APPROVED this 13th day of April, 2020 BY THE PLANNING COMMISSION OF THE CITY OF SANTA FE SPRINGS.

_____
Frank Ybarra, Chairperson

ATTEST:

_____
Teresa Cavallo, Planning Secretary

Exhibit A
CONDITIONS OF APPROVAL
Development Plan Approval Case No. 971
Amendment to Conditional Use Permit Case No. 780
Modification Permit Case No. 1325

POLICE SERVICES DEPARTMENT:
(Contact: Luis Collazo at 562-409-1850 x3320)

1. The applicant shall submit and obtain approval of a proposed lighting (photometric) plan for the property from the City's Department of Police Services. The photometric plan shall be designed to provide adequate lighting (minimum of 1 foot candle power) throughout the subject property. Further, all exterior lighting shall be designed/installed in such a manner that light and glare are not transmitted onto adjoining properties in such concentration/quantity as to create a hardship to adjoining property owners or a public nuisance. The photometric plans shall be submitted to the Director of Police Services no later than sixty (60) day from the date of approval by the Planning Commission.

2. The applicant shall provide an emergency phone number and a contact person of the person or persons involved in the supervision of the construction to the Department of Police Services. The name, telephone number, fax number and e-mail address of that person shall be provided to the Director of Police Services no later than 60 days from the date of approval by the Planning Commission. Emergency information shall allow emergency service to reach the applicant or their representative any time, 24 hours a day.

3. In order to facilitate the removal of unauthorized vehicles parked on the property, the applicant shall post, in plain view and at each entry to the property, a sign not less than 17" wide by 22" long. The sign shall prohibit the public parking of unauthorized vehicles and indicate that unauthorized vehicles will be removed at the owner's expense and also contain the California Vehicle Code that permits this action. The sign shall also contain the telephone number of the local law enforcement agency (Police Services Center (562) 409-1850). The lettering within the sign shall not be less than one inch in height. The applicant shall contact the Police Services Center for an inspection no later than 30 days after the project has been completed and prior to the occupancy permit being issued.

4. The proposed buildings, including any lighting, fences, walls, cabinets, and poles shall be maintained in good repair, free from trash, debris, litter and graffiti and other forms of vandalism. Any damage from any cause shall be repaired within 72 hours of occurrence, weather permitting, to minimize occurrences of dangerous conditions or visual blight. Paint utilized in covering graffiti shall be a color that matches, as closely possible, the color of the existing and/or adjacent surfaces.

5. It shall be the responsibility of the job-supervisor to maintain the job site in a clean and orderly manner. Dirt and debris that has migrated to the street or neighboring properties shall be immediately cleaned. Porte-potties, or equal, shall not be visible from the public street and maintained in a regular basis.

ENGINEERING / PUBLIC WORKS DEPARTMENT:
(Contact: Robert Garcia 562-868-0511 x7545)

6. That the applicant shall pay a flat fee of $ 59,731 to reconstruct/resurface the existing street frontage to centerline of Telegraph Road and Shoemaker Avenue.

7. The applicant shall pay $5,000 of the costs associated with the installation of an Emergency Vehicle Preemption System (OPTICOM) at the intersection of Telegraph Road and Shoemaker Avenue as determined by the City Engineer and Fire Chief.

8. That the applicant shall design and construct a 5-foot wide meandering sidewalk and dedicate an easement along the Telegraph Road and Shoemaker Avenue street frontages. If applicable, the dedicated easement shall be shown on the Parcel/Tract Map or Easement Deed to the City of Santa Fe Springs. Furthermore, said meandering sidewalk shall be shown on both the civil and landscape plans.

9. That the applicant shall design and construct (1) new drive approach along Shoemaker Avenue per City Standard Plan No. R-6.4C.

10. That the applicant shall design and construct new type “A2” Curb and Gutter along Telegraph Road and Shoemaker Avenue per City Standard Plan No. R- 7.

11. That the applicant shall remove existing Box Type Parkway Drain along Telegraph Road.

12. A.D.A. compliant access ramp and associated sidewalk improvements with black truncated domes to be constructed at south east corner of Telegraph Road and Shoemaker Avenue. Construction shall be paid for by the owner/ developer.

13. That adequate “on-site” parking shall be provided per City requirements, and all streets abutting the development shall be posted “No Stopping Any Time.” The City will install new offsite signs and the applicant shall pay the actual cost of sign installation.

14. That the applicant shall pay to the City, $15,000 for the entire cost of design, engineering, relocation and inspection of (1) street light on Shoemaker Avenue. The City will design and cause construction of said street light(s).

15. Proposed driveways shall be located to clear existing fire hydrants, street lights, water meters, etc.

CITY UTILITIES

16. Storm drains, catch basins, connector pipes, retention basin and appurtenances built for this project shall be constructed in accordance with City specifications in Telegraph Road and Shoemaker Avenue. Storm drain plans shall be approved by the City Engineer.

17. Fire hydrants shall be installed as required by the Fire Department. Existing public fire hydrants adjacent to the site, if any, shall be upgraded if required by the City Engineer. That the applicant shall pay to the City the entire cost of design, engineering, installation and inspection of Fire hydrants**.**

18. That sanitary sewers shall be constructed in accordance with City specifications to serve the subject development. The plans for the sanitary sewers shall be approved by the City Engineer. A sewer study (including a sewer flow test) shall be submitted along with the sanitary sewer plans.

19. All buildings shall be connected to the sanitary sewers.

20. That the fire sprinkler plans, which show the proposed double-check valve detector assembly location, shall have a stamp approval from the Planning Department and Public Works Department prior to the Fire Department's review for approval. Disinfection, pressure and bacteriological testing on the line between the street and detector assembly shall be performed in the presence of personnel from the City Water Department. The valve on the water main line shall be operated only by the City and only upon the City's approval of the test results.

21. That the applicant shall obtain a Storm Drain Connection Permit for any connection to the storm drain system.

22. The applicant shall have an overall site utility master plan prepared by a Registered Civil Engineer showing proposed location of all public water mains, reclaimed water mains, sanitary sewers and storm drains. This plan shall be approved by the City Engineer prior to the preparation of any construction plans for the aforementioned improvements.

TRAFFIC

23. The applicant shall submit a traffic study prepared by a Professional Engineer. The traffic study shall show the present traffic in the area and projected traffic after the development of the property. Any improvements or mitigation measures including installation of traffic signals and/or modifications, the installation of additional left turn lanes or deceleration lanes, the lengthening of left turn lanes or other median modifications, etc. that are warranted based on the study, the applicant and/or developer shall pay to the City the full cost of design engineering, installation and

inspection of the improvements. The City will design and cause construction of the improvements.

24. That all point of access to the proposed development shall be reviewed and approved by the City Engineer. Left turns may be prohibited as designated by the City Engineer.

FEES

25. That the applicant shall comply with Congestion Management Program (CMP) requirements and provide mitigation of trips generated by the development. The applicant and/or developer will receive credit for the demolition of any buildings that formerly occupied the site. For new developments, the applicant and/or developer cannot meet the mitigation requirements, the applicant and/or developer shall pay a mitigation fee to be determined by the City Engineer for off-site transportation improvements.

26. That the applicant shall comply with all requirements of the County Sanitation District, make application for and pay the sewer maintenance fee.

27. That the applicant shall pay the water trunkline connection fee of $3,700 per acre upon application for water service connection or if utilizing any existing water service.

MISCELLANEOUS

28. That a grading plan shall be submitted for drainage approval to the City Engineer. The applicant shall pay drainage review fees in conjunction with this submittal. A professional civil engineer registered in the State of California shall prepare the grading plan.

29. That the applicant shall submit a hydrology study to the City Engineer. The study shall be prepared by a Professional Civil Engineer.

30. That upon completion of public improvements constructed by developers, the developer's civil engineer shall submit mylar record drawings and an electronic file (AutoCAD Version 2004 or higher) to the office of the City Engineer.

31. That the applicant shall comply with the National Pollutant Discharge Elimination System (NPDES) program and shall require the general contractor to implement storm water/urban runoff pollution prevention controls and Best Management Practices (BMPs) on all construction sites in accordance with the current MS4 Permit. The applicant will also be required to submit a Certification for the project and will be required to prepare a Storm Water Pollution Prevention Plan (SWPPP).

DEPARTMENT OF FIRE - RESCUE (FIRE PREVENTION DIVISION)
(Contact: Raul Diaz 562-906-3813)

32. All buildings over 5,000 sq. ft. shall be protected by an approved automatic sprinkler system per Section 93.11 of the Santa Fe Springs Municipal Code.

33. The applicant shall comply with the requirements of Section 117.129 of the Santa Fe Springs Municipal Code, Requirements Prior to New Construction, in accordance with Ordinance No. 1104, prior to issuance of building permits.

34. The applicant shall comply with the requirements of Section 117.131 of the Santa Fe Springs Municipal Code, Requirement for a Soil Gas Study, in accordance with Ordinance No. 955, prior to issuance of building permits.

35. When applicable, abandoned oil wells must be exposed and inspected under the oversight of a registered petroleum engineer. The wells must be monitored for methane leaks and the precise location of each abandoned well shall be surveyed. A report of findings along with a description of any recommended remedial actions needed to comply with the Division of Oil, Gas, and Geothermal Resources, signed by a registered petroleum engineer, must be provided to the Fire Department.

36. Interior gates or fences are not permitted across required Fire Department access roadways unless otherwise granted prior approval by the City Fire Department.

37. If on-site fire hydrants are required by the Fire Department, a minimum flow must be provided at 2,500 gpm with 1,500 gpm flowing from the most remote hydrant. In addition, on-site hydrants must have current testing, inspection and maintenance per California Title 19 and NFPA 25.

38. The standard aisle width for onsite emergency vehicle maneuvering shall be 26 feet with a minimum clear height of 13 feet 6 inches. Internal driveways shall have a turning radius of not less than 52 feet. The final location and design of this 26 feet shall be subject to the approval of the City's Fire Chief as established by the Uniform Fire Code. A request to provide emergency vehicle aisle width less than 26 feet shall be considered upon the installation/provision of mitigation improvements approved by the City's Fire Chief.

39. Prior to submitting plans to the Building Department, a preliminary site plan shall be approved by the Fire Department for required access roadways and on-site fire hydrant locations. The site plan shall be drawn at a scale between 20 to 40 feet per inch. Include on plan all entrance gates that will be installed.

40. Knox boxes are required on all new construction. All entry gates shall also be equipped with Knox boxes or Knox key switches for power-activated gates.

41. Signs and markings required by the Fire Department shall be installed along the required Fire Department access roadways.

DEPARTMENT OF FIRE - RESCUE (ENVIRONMENTAL DIVISION)
(Contact: Tom Hall 562-906-3815)

42. Prior to issuance of building permits, the applicant shall comply with the applicable conditions below and obtain notification in writing from the Santa Fe Springs Department of Fire-Rescue (SFSDFR) that all applicable conditions have been met:

    a. At a minimum, the applicant must conduct an All Appropriate Inquiries (AAI) Investigation (formerly called a Phase I Environmental Site Assessment) in accordance with ASTM Standard E1527-05. The applicant shall provide the SFSDFR Environmental Protection Division (EPD) with a copy of the AAI investigation report for review and approval. If the AAI investigation identifies a release, or potential release at the site, the applicant must comply with part b.
    b. An environmental site assessment may be required based on the information presented in the AAI investigation report. The environmental site assessment report must be reviewed and approved by the EPD in writing. Should the report indicate that contaminate levels exceed the City's remediation standards or other regulatory agency guidelines, remedial action will be required. A remedial action work plan must be approved by the EPD and/or another authorized oversight agency before implementation. Once remedial action is complete, a final remedial action report must be submitted and approved by the oversight agency.
    c. Soil Management Plan & Report. A Soils Management Plan (SMP) which addresses site monitoring and a contingency plan for addressing previously unidentified contamination discovered during site development activities may be required. If required, the SMP shall be submitted to the EPD for review and approval before grading activities begin. Once grading is complete, a SMP report must be submitted to the EPD for final written approval. Building plans will not be approved until the SMP report has been approved by the EPD in writing.

43. Permits and approvals. The applicant shall, at its own expense, secure or cause to be secured any and all permits or other approvals which may be required by the City and any other governmental agency prior to conducting environmental assessment or remediation on the property. Permits shall be secured prior to beginning work related to the permitted activity.

44. All abandoned pipelines, tanks and related facilities shall be removed unless approved by the City Engineer and Fire Chief. Appropriate permits for such work shall be secured before abandonment work begins

45. The applicant shall submit plumbing plans to the Fire Department Environmental Protection Division (EPD) and, if necessary, obtain an Industrial Wastewater Discharge Permit Application for generating, storing, treating or discharging any industrial wastewater to the sanitary sewer.

WASTE MANAGEMENT:
(Contact: Teresa Cavallo 562-868-0511 x7309)

46. The applicant shall comply with Section 50.51 of the Municipal Code which prohibits any business or residents from contracting any solid waste disposal company that does not hold a current permit from the City.

47. All projects over $50,000 are subject to the requirements of Ordinance No. 914 to reuse or recycle 75% of the project waste. Contact the Recycling Coordinator, Teresa Cavallo at (562) 868-0511 x7309.

48. The applicant shall comply with Public Resource Code, Section 42900 et seq. (California Solid Waste Reuse and Recycling Access Act of 1991) as amended, which requires each development project to provide adequate storage area for the collection/storage and removal of recyclable and green waste materials.

PLANNING AND DEVELOPMENT DEPARTMENT:
(Contact: Laurel Reimer 562-868-0511 x7354)

49. The development shall be constructed substantially in accordance with the plot plan, floor plan, and elevations submitted by the applicant and on file.

50. The proposed building and façade enhancements shall be constructed of quality materials. Any material shall be replaced when and if the material becomes deteriorated, warped, discolored or rusted.

51. Applicant shall submit for approval a detailed landscape and automatic irrigation plan pursuant to the Landscaping Guidelines of the City. Said landscape plan shall indicate the location and type of all plant materials, existing and proposed, to be used and shall include 2 to 3 foot high berms (as measured from the parking lot grade elevation), shrubs designed to fully screen the interior yard and parking areas from public view and 24" box trees along the street frontage. Said plans shall be consistent with AB 1881 (Model Water Efficient Landscape Ordinance).

52. The landscaped areas shall be provided with a suitable, fixed, permanent and automatically controlled method for watering and sprinkling of plants. This operating sprinkler system shall consist of an electrical time clock, control valves, and piped water lines terminating in an appropriate number of sprinklers to insure proper watering periods and to provide water for all plants within the landscaped area. Sprinklers used to satisfy the requirements of this section shall be spaced to

assure complete coverage of all landscaped areas. Said plan shall be consistent with AB 1881 (Model Water Efficient Landscape Ordinance).

53. Upon completion of the new landscaping and landscape upgrade, the required landscaped areas shall be maintained in a neat, clean, orderly and healthful condition. This is meant to include proper pruning, mowing of lawns, weeding, removal of litter, fertilizing, and replacement of plants when necessary and the regular watering of all plantings.

54. A sufficient number of approved trash enclosures shall be provided for the development subject to the approval of the Director of Planning or designee. The calculation to determine the required storage area is: 1% of the first 20,000 sq. ft. of floor area + ½% of floor area exceeding 20,000 sq. ft., but not less than 4 ½ feet in width nor than 6 feet in height. *(Calculations are subject to change)*.

55. All activities shall occur inside the building(s). No portion of the property shall be used for outdoor storage of any type, or for special-event activities, unless prior written approval is obtained from the Director of Planning, Director of Police Services and the Fire Marshall.

56. Areas designated for off-street parking shall not be used for storage of vehicles or other materials.

57. All parking stalls shall be legibly marked off on the pavement, showing the required parking spaces. Additionally, all compact spaces shall be further identified by having the words “Compact” or comparable wording legibly written on the pavement, wheel stop or on a clearly visible sign.

58. The applicant shall not allow commercial vehicles, trucks and/or truck tractors to queue on Telegraph Road or Shoemaker Ave, use streets as a staging area, or to back up onto the street from the subject property.

59. The Planning Department shall review and approve all sign proposals for the development. The sign proposal (plan) shall include a site plan, building elevation on which the sign will be located, size, style and color of the proposed sign. All drawings shall be properly dimensioned and drawn to scale on a minimum 11” x 17” size paper. All signs shall be installed in accordance with the sign standards of the Zoning Ordinance and the Sign Guidelines of the City.

60. Approved suite numbers/letters or address numbers shall be placed on the proposed building in such a position as to be plainly visible and legible from the street fronting the property. Said numbers shall contrast with their background. The size recommendation shall be 12’’ minimum.

61. The applicant shall clarify on the construction drawings that all roof drains (facing the street), shall be provided along the interior walls and not along the exterior of the building.

62. The applicant or the owner/developer shall be responsible for reviewing and/or providing copies of the required conditions of approval to his/her architect, engineer, contractor, tenants, etc. Additionally, the conditions of approval contained herein, shall be made part of the construction drawings for the proposed development. ***Construction drawings shall not be accepted for Plan Check without the conditions of approval incorporated into the construction drawings.***

63. The Mitigation Monitoring and Reporting Program, which was prepared for the proposed project and adopted by the Planning Commission upon completion of the Mitigated Negative Declaration, shall be made part of the conditions of approval for Development Plan Approval Case No. 971, Amendment to Conditional Use Permit Case No. 780 and Modification Permit Case No. 1325. The Mitigation Monitoring and Reporting Program is listed as an attachment to this staff report.

64. The owner/developer shall submit a lighting program that is integrated into the overall site, landscape design and building design. Lighting shall be used to highlight prominent building features such as entries and other focal points. Up-lighting can also be used as a way to enhance the texture of plants and structures, to create a sense of height in a landscape design.

65. The applicant shall apply for a Well Review Report (report) through the Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR). A copy of this report shall be provide to the Planning Department. If historic oil wells are identified on-site, well abandoned to current DOGGR standards may be required before a building permit can be issued.

66. The applicant shall apply for an Oilfield Site Plan Review through the Planning Department.

67. *Prior* to submitting plans to the Building Division for plan check, the applicant shall submit mechanical plans that include a roof plan showing the location of all roof-mounted equipment. All roof-mounted mechanical equipment and/or duct work which project above the roof or roof parapet of the proposed development and is visible from adjacent property or a public street shall be screened by an enclosure which is consistent with the architecture of the building and approved by the Director of Planning or designee.
    a. To illustrate the visibility of equipment and/or duct work, the following shall be submitted along with the Mechanical Plans:
        i. A roof plan showing the location of all roof-mounted equipment;
        ii. Elevations of all existing and proposed mechanical equipment; and
        iii. A building cross-section drawing which shows the roof-mounted equipment and its relation to the roof and parapet lines.

NOTE: line-of-sight drawing and/or building cross section must be scaled.

68. The Department of Planning and Development requires that the double-check detector assembly be screened by shrubs or other materials. All shrubs shall be planted a minimum distance of two (2) feet surrounding the detector assembly; *however, the area in front of the OS and Y valves shall not be screened.* The screening shall also only be applicable to the double-check detector assembly and *shall not* include the fire department connector (FDC). Notwithstanding, the Deputy Fire Marshall shall have discretionary authority to require the FDC to be located a minimum distance from the double-check detector assembly.

69. The electrical plans, which show the location of electrical transformer(s), shall be subject to the approval of the Planning Department. Transformers shall not be located within the front yard setback area. The location of the transformer(s) shall be subject to the *prior approval* of the Director of Planning or designee. The electrical transformer shall be screened with shrubs. (Three (3) foot clearance on sides and back of the equipment. Eight (8) foot clearance in front of the equipment. Landscaping irrigation system shall be installed so that they do not spray on equipment.) A copy of the Guideline is available at the Planning Department).

70. To prevent the travel of combustible methane gas into any structure, all slab or foundation penetrations, including plumbing, communication and electrical penetrations, must be sealed with an appropriate material. In addition, underground electrical conduits penetrating the slab or foundation of the structure, shall comply with the National Electrical Code (NEC), replete with a seal-off device normally required for classified electrical installations, so as to prevent the travel of combustible methane gas into the structure through conduit runs. *Refer to California Electrical Code, Chapter 5, Sections 500 and 501.*

71. Prior to issuance of building permits, the applicant or owner/developer shall comply with the following conditions to the satisfaction of the City of Santa Fe Springs:
    a. Covenants.
        1. Applicant or owner/developer shall provide a written covenant to the Planning Department that, except as may be revealed by the environmental remediation described above and except as applicant may have otherwise disclosed to the City, Commission, Planning Commission or their employees, in writing, applicant has investigated the environmental condition of the property and does not know, or have reasonable cause to believe, that (a) any crude oil, hazardous substances or hazardous wastes, as defined in state and federal law, have been released, as that term is defined in 42 U.S.C. Section 9601 (22), on, under or about the Property, or that (b) any material has been discharged on, under or about the Property that could affect the quality of ground or surface water on the Property within the meaning of the California Porter-Cologne Water Quality Act, as amended, Water Code Section 13000, et seq.

2. Applicant or owner/developer shall provide a written covenant to the City that, based on reasonable investigation and inquiry, to the best of their knowledge, it does not know or have reasonable cause to believe that it is in violation of any notification, remediation or other requirements of any federal, state or local agency having jurisdiction concerning the environmental conditions of the Property.

b. Applicant and owner/developer understand and agrees that it is the responsibility of the applicant to investigate and remedy, pursuant to applicable federal, state and local law, any and all contamination on or under any land or structure affected by this approval and issuance of related building permits. The City, Commission, Planning Commission or their employees, by this approval and by issuing related building permits, in no way warrants that said land or structures are free from contamination or health hazards.

c. Applicant and owner/developer understand and agrees that any representations, actions or approvals by the City, Commission, Planning Commission or their employees do not indicate any representation that regulatory permits, approvals or requirements of any other federal, state or local agency have been obtained or satisfied by the applicant and, therefore, the City, Commission, Planning Commission or their employees do not release or waive any obligations the applicant may have to obtain all necessary regulatory permits and comply with all other federal, state or other local agency regulatory requirements. Applicant, not the City, Commission, Planning Commission or their employees will be responsible for any and all penalties, liabilities, response costs and expenses arising from any failure of the applicant to comply with such regulatory requirements.

72. The owner/developer shall require and verify that all contractors and sub-contractors have successfully obtained a Business License with the City of Santa Fe Springs prior to beginning any work associated with the subject project. A late fee and penalty will be accessed to any contractor or sub-contractor that fails to obtain a Business License and a Building Permit final or Certificate of Occupancy will not be issued until all fees and penalties are paid in full. Please contact the Finance Department at (562) 868-0511, extension 7520 for additional information. A business license application can also be downloaded at www.santafesprings.org.

73. During construction, the following information shall be made available on a sign posted at the main entrance(s) to the site:
    a. Name of the development/project.
    b. Name of the development company.
    c. Address or Address range for the subject site.
    d. 24-hour telephone number where someone can leave a message on a particular complaint (dust, noise, odor, etc.)

74. The owner/developer understands and agrees that if changes to the original plans (submitted and on file with the subject case) are required during construction, revised plans must be provided to the Planning Department for review and approval prior to the implementation of such changes. Please note that certain changes may also require approvals from other departments.

75. Any damaged asphalt and swale (ribbon gutter) shall be repaired within ninety (90) days from the date of issuance of a Certificate of Occupancy by the Building Inspector for the proposed building addition.

76. The owner/developer shall comply with the City's "Heritage Artwork in Public Places Program" in conformance with City Ordinance No. 1054.

77. The applicant shall comply with all parts of Zoning Code Section 155.637 Mini-Warehouses at all times.

78. On-site loading activities shall only be permitted within the designated loading area shown on the submitted site plan.

79. The exterior exit doors shall remain closed when not being used for ingress/egress purposes. Additionally, the applicant shall inform all staff members and clients not to loiter or make loud noises outside of the building.

80. The applicant shall maintain the property in a clean and orderly manner at all times.

81. All other requirements of the City's Zoning Ordinance, Building Code, Property Maintenance Ordinance, State and City Fire Code and all other applicable County, State and Federal regulations and codes shall be complied with. Section 155.637

82. The applicant and owner/developer agree to defend, indemnify and hold harmless the City of Santa Fe Springs, its agents, officers and employees from any claim, action or proceeding against the City or its agents, officers or employees to attack, set aside, void or annul an approval of the City or any of its councils, commissions, committees or boards arising from or in any way related to all entitlements and approvals issued by the City in connection with the Project and from any CEQA challenges relating to the environmental review and determination for the Project, or any actions or operations conducted pursuant thereto. Should the City, its agents, officers or employees receive notice of any such claim, action or proceeding, the City shall promptly notify the applicant of such claim, action or proceeding, and shall cooperate fully in the defense thereof.

83. Amendment to Conditional Use Permit Case No. 780 shall be subject to a compliance review in 2 years, on April 13, 2022. Approximately three (3) months before April 3, 2022, the applicant shall request, in writing, an extension of the privileges granted herein, provided that the use has been continuously maintained in strict compliance with these conditions of approval.

84. Unless otherwise specified in the action granting Development Plan Approval Case No. 971, said approval which has not been utilized within a period of 12 consecutive months from the effective date shall become null and void. Also, the abandonment or nonuse for a period of 12 consecutive months shall terminate Development Plan Approval Case No. 971 and any privileges granted thereunder shall become null and void. However, an extension of time may be granted by Planning Commission or City Council action.

85. Unless otherwise specified in the action granting Amendment to Conditional Use Permit Case No. 780, said approval which has not been utilized within a period of 12 consecutive months from the effective date shall become null and void. Also the abandonment or nonuse for a period of 12 consecutive months shall terminate Amendment to Conditional Use Permit Case No. 780 and any privileges granted thereunder shall become null and void. However, an extension of time may be granted by Planning Commission or City Council action.

86. If there is evidence that conditions of approval have not been fulfilled or the use has resulted in a substantial adverse effect on the health, and/or general welfare of users of adjacent or proximate property, or has a substantial adverse impact on public facilities or services, the Director of Planning may refer the use permit to the Planning Commission for review. If upon such review, the Commission finds that any of the results above have occurred, the Commission may modify or revoke the use permit.

87. It is hereby declared to be the intent that if any provision of this Approval is violated or held to be invalid, or if any law, statute or ordinance is violated, this Approval shall be void and the privileges granted hereunder shall lapse.

Attachment 6 – Project Plans



GOLDEN STATE STORAGE: SANTA FE SPRINGS EXPANSION

INDEX OF DRAWINGS

ARCHITECTURAL
1 SITE DEMOLITION PLAN
2 SITE PLAN
3 BUILDING B FIRST FLOOR PLAN
4 BUILDING B SECOND FLOOR PLAN
5 BUILDING B THIRD FLOOR PLAN
6 BUILDING B ROOF PLAN
7 BUILDING I & J PLAN
8 BUILDING B EXTERIOR ELEVATIONS
9 BUILDING B EXTERIOR ELEVATIONS
10 BUILDING I & J EXTERIOR ELEVATIONS
11 RENDERINGS
12 RENDERINGS

L1 CONCEPTUAL LANDSCAPE PLAN

PROJECT INFORMATION

PROJECT ADDRESS:	13020 TELEGRAPH ROAD SANTA FE SPRINGS, CA
BUILDING AUTHORITY:	CITY OF SANTA FE SPRINGS
ZONING REGULATIONS:	CITY OF SANTA FE SPRINGS PLANNING CODE 2016 COUNTY OF LOS ANGELES BUILDING CODE
LOCAL PLANNING:	TELEGRAPH ROAD CORRIDOR
ASSESSOR'S ID #:	8011-014-017
LEGAL DESCRIPTION:	VACATION OF SUBDIVISIONS AND CERTAIN STREETS AND ALLEYS IN THE TOWN OF SANTA FE SPRINGS AND BANNISTOR'S ADDITION LOT COM S 84°55' W 235 FT FROM SW COR ... SEE MAPBOOK FOR MISSING PORTION ... SEC 5 T 3S R 11W
MAJOR CROSS STREETS:	TELEGRAPH ROAD AND SHOEMAKER AVENUE
LOT AREA:	LOT SIZE: 1.60 ACRES
ZONING:	M-2 HEAVY MANUFACTURING ZONE DISTRICT
(E) BUILDING USE:	SELF STORAGE / PARKING / OFFICE / CARETAKER'S RESIDENCE
(E) CONSTRUCTION TYPE:	EXISTING STORAGE BUILDINGS: TYP III - B, BUILDING I: STORAGE, OFFICE, APARTMENT: TYPE V - B
(E) OCCUPANCIES:	GROUPS S-1 (SELF STORAGE), B (OFFICE), GROUP R-2 (RESIDENTIAL), GROUP U (RESIDENTIAL)
(N) BUILDING USE:	SELF STORAGE / PARKING / OFFICE / CARETAKER'S RESIDENCE
(N) CONSTRUCTION TYPE:	EXISTING STORAGE BUILDINGS BUILDING J: TYPE III - B. BUILDING I: STORAGE, OFFICE, APARTMENT: TYPE V - B. NEW STORAGE BUILDING (B): TYPE II - B.
(N) OCCUPANCIES:	GROUP S-1 (SELF STORAGE), B (OFFICES), GROUP R-2 (RESIDENTIAL), GROUP U (RESIDENTIAL)

CITY OF SANTA FE SPRINGS SETBACK & HEIGHT:

	REQUIRED	PROVIDED
FRONT YARD:	30'-0"	30'-0"
REAR YARD:	0'-0"	0'-0"
SIDE YARD:	30'-0"	30'-0"
HEIGHT:	<50'-0"	38'-6"*

* MINIMUM 38'-6" SETBACK PROVIDED

PARKING PROVIDED:

REQUIRED:
1 PER 10,000 S.F. OF STORAGE AREA:
(101,2545.F.) 11 REQ
EMPLOYEES SPACES=1 CARETAKER: 1 REQ
TOTAL: 12 REQ.

PROVIDED: (14) FOURTEEN PARKING SPACES
(1) ONE VAN ACCESSIBILITY SPACE.

FIRE SPRINKLERS: (E) BLDGS: NON-SPRINKLERED
(N) BLDGS: SPRINKLERED

GOLDEN STATE STORAGE

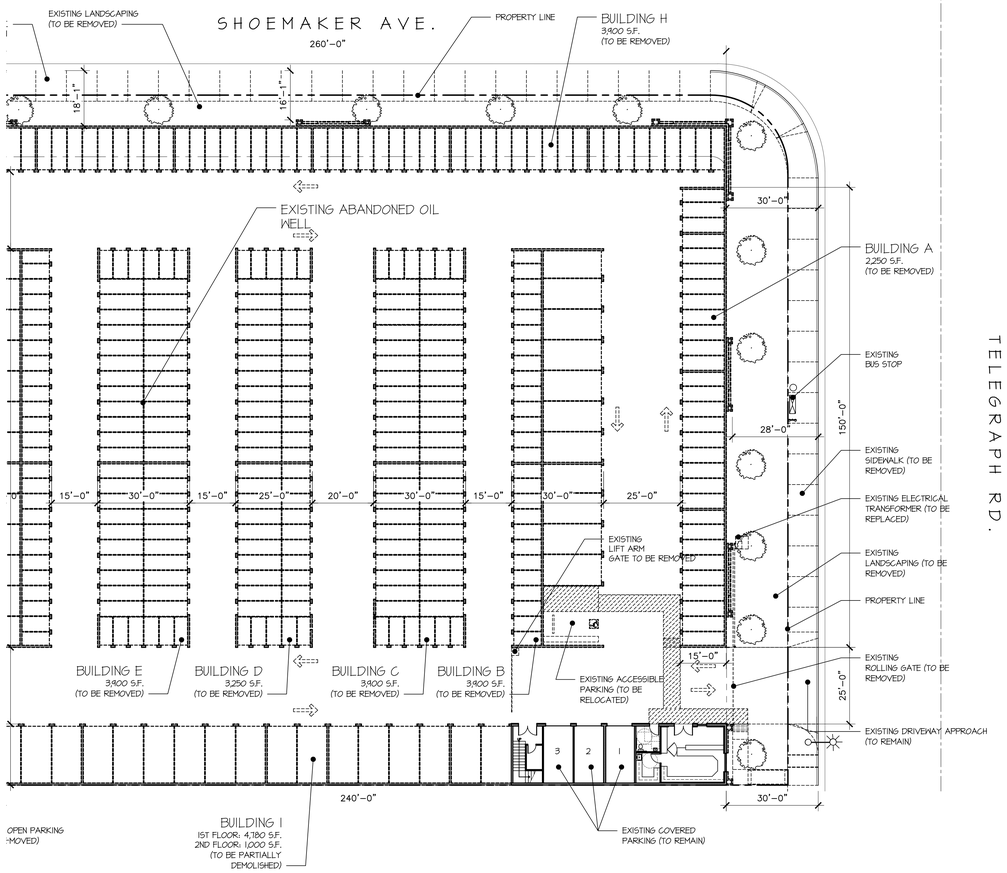
13020 TELEGRAPH ROAD, SANTA FE SPRINGS, CALIFORNIA

NOVEMBER 26, 2019

RASMUSSEN & ASSOCIATES
Architecture
Planning
Interiors

21 S. CALIFORNIA STREET
VENTURA, CA 93001
VOICE: (805) 648-1234
FAX: (805) 648-4444
CONTACT: JAY LOMAGNO

DWG: P:\ARP\10 SGS SANTA FE EXPANSION\PRESENTATION\SGS - SFS - SITE & FLOOR PLANS\SGS - SFS - SITE & FLOOR PLANS (PLOTTED) - 12.2.19.pln



TELEGRAPH RD.

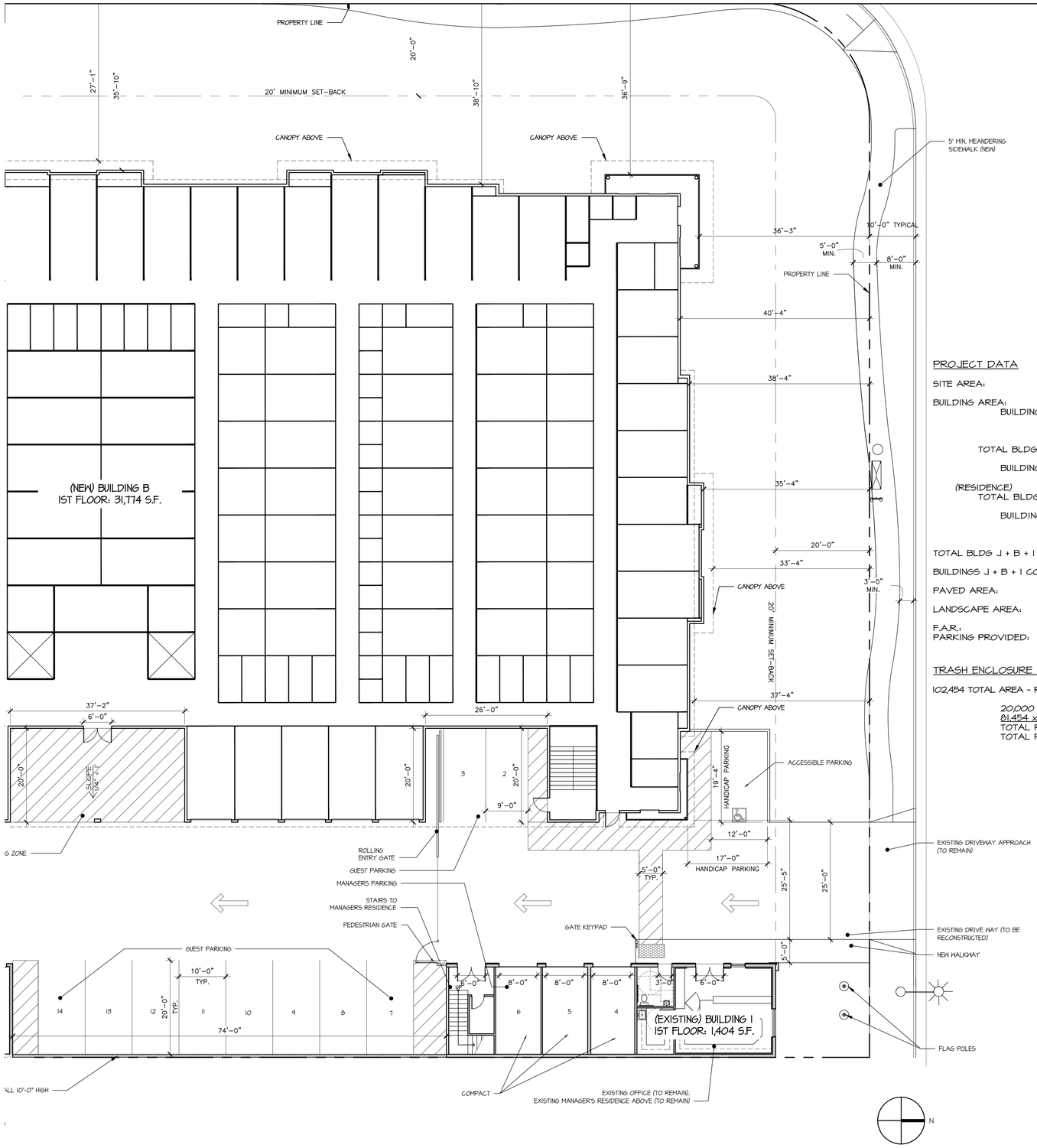
EXISTING PROJECT AREA:

LOT AREA:		69,626 S.F.
BUILDING AREA:		
	EXISTING TO REMAIN:	2,404 S.F.
	EXISTING TO BE REMOVED:	31,581 S.F.
TOTAL:		33,985 S.F.
PAVED AREA:		29,538 S.F.
LANDSCAPE:		6,103 S.F.

RNIA

NOVEMBER 26, 2019

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PROJECT DATA

SITE AREA:	69,626 S.F.	
BUILDING AREA:		
BUILDING B:		
1ST FLOOR:	31,774 S.F.	
2ND FLOOR:	33,044 S.F.	
3RD FLOOR:	32,685 S.F.	
TOTAL BLDG B:	97,503 S.F.	
BUILDING 1:		
(RESIDENCE) 1ST FLOOR:	1,404 S.F.	
(RESIDENCE) 2ND FLOOR:	1,000 S.F.	
TOTAL BLDG 1:	2,404 S.F.	
BUILDING J:		
1ST FLOOR	2,547 S.F.	
TOTAL BLDG J + B + 1	102,454 S.F.	
BUILDINGS J + B + 1 COMBINED FOOTPRINT:	35,725 S.F.	51%
PAVED AREA:	18,871 S.F.	27%
LANDSCAPE AREA:	15,030 S.F.	22%
F.A.R.:	1.45	
PARKING PROVIDED:	14 SPACES	

TRASH ENCLOSURE AREA CALCULATIONS

102,454 TOTAL AREA - RESIDENCE 1,000 = 101,454

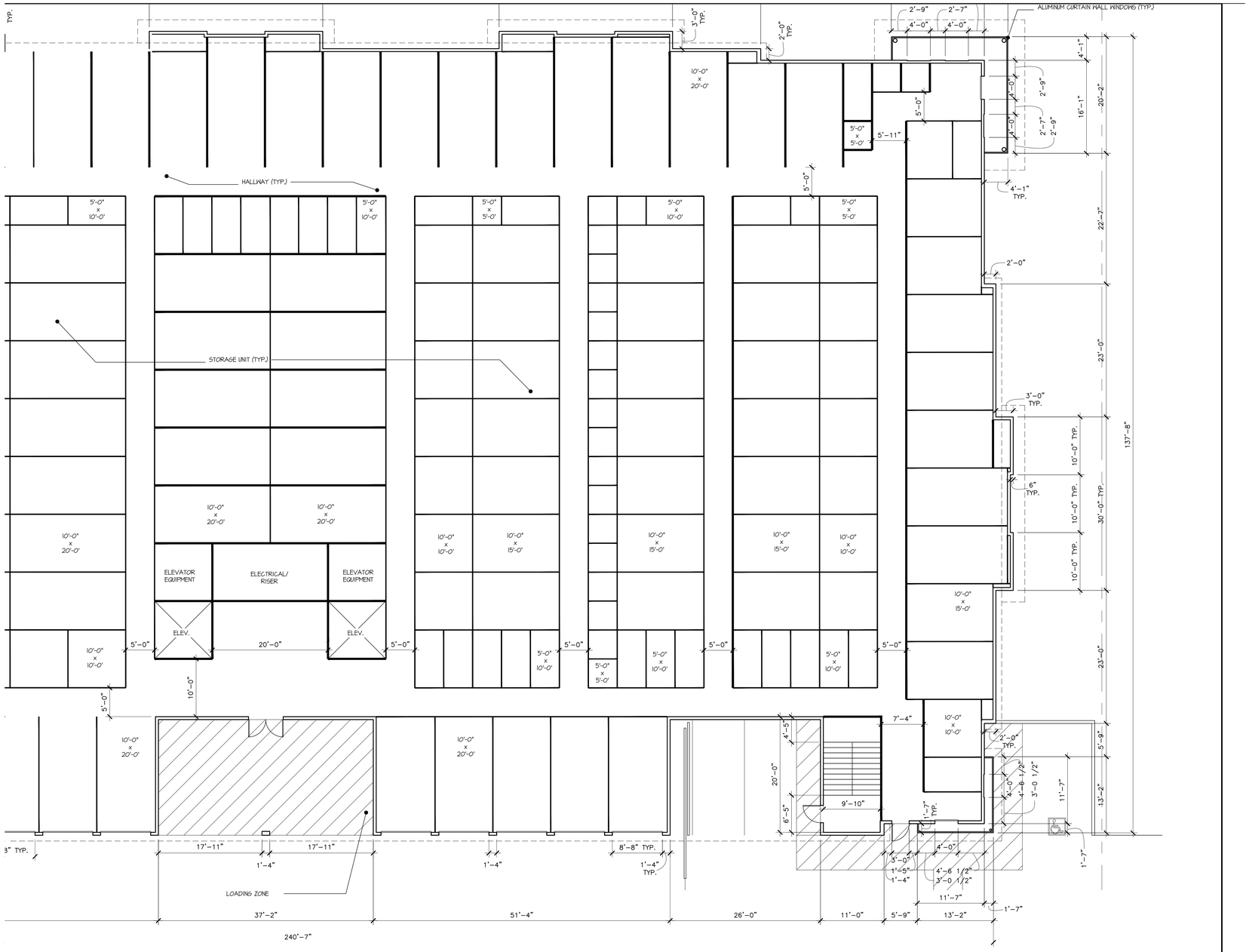
20,000 x .01 =	200 S.F.
81,454 x .005 =	407 S.F.
TOTAL REQ'D	607 S.F.
TOTAL PROVIDED:	658 S.F.

RNIA

NOVEMBER 26, 2019

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STORAGE UNITS (FIRST FLOOR)

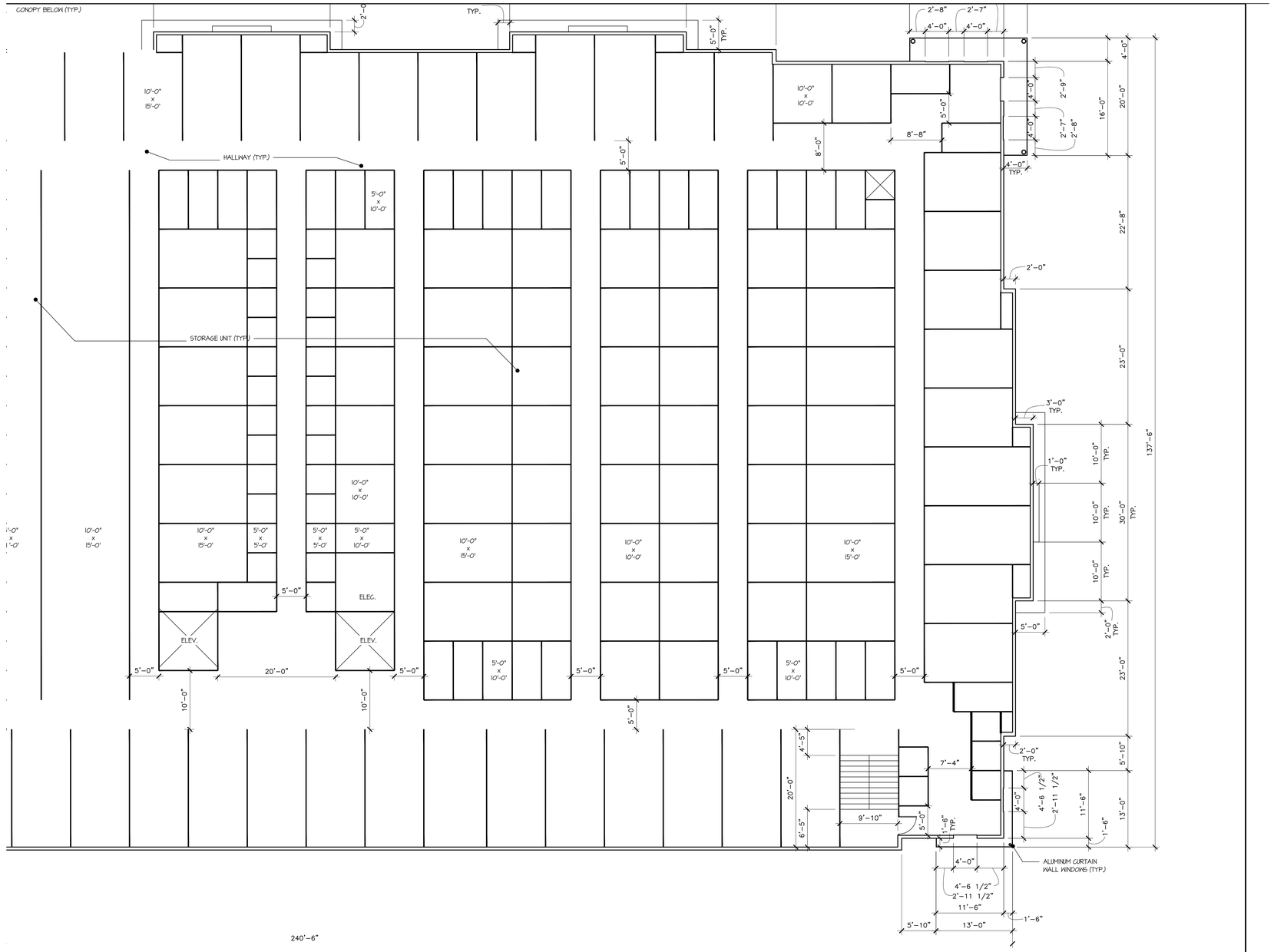
5X5	25	14%
5X10	38	20%
10X10	21	11%
10X15	31	17%
10X20	65	34%
10X25	06	03%
TOTAL:	186	

RNIA

NOVEMBER 26, 2019

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STORAGE UNITS (SECOND FLOOR)

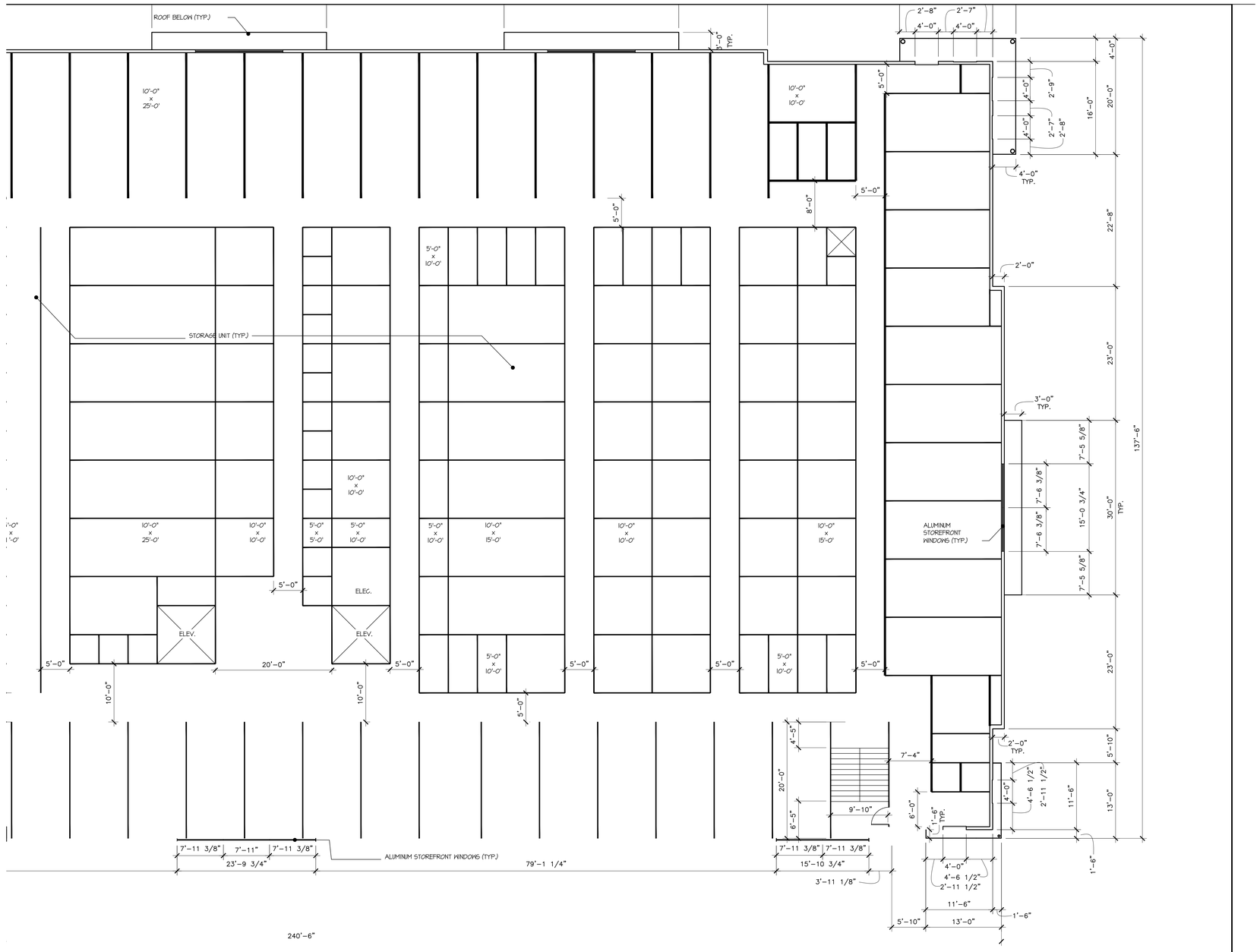
5X5	35	16 %
5X10	55	24%
10X10	38	16%
10X15	59	26 %
10X20	42	18 %
TOTAL:	229	

RNIA

NOVEMBER 26, 2019

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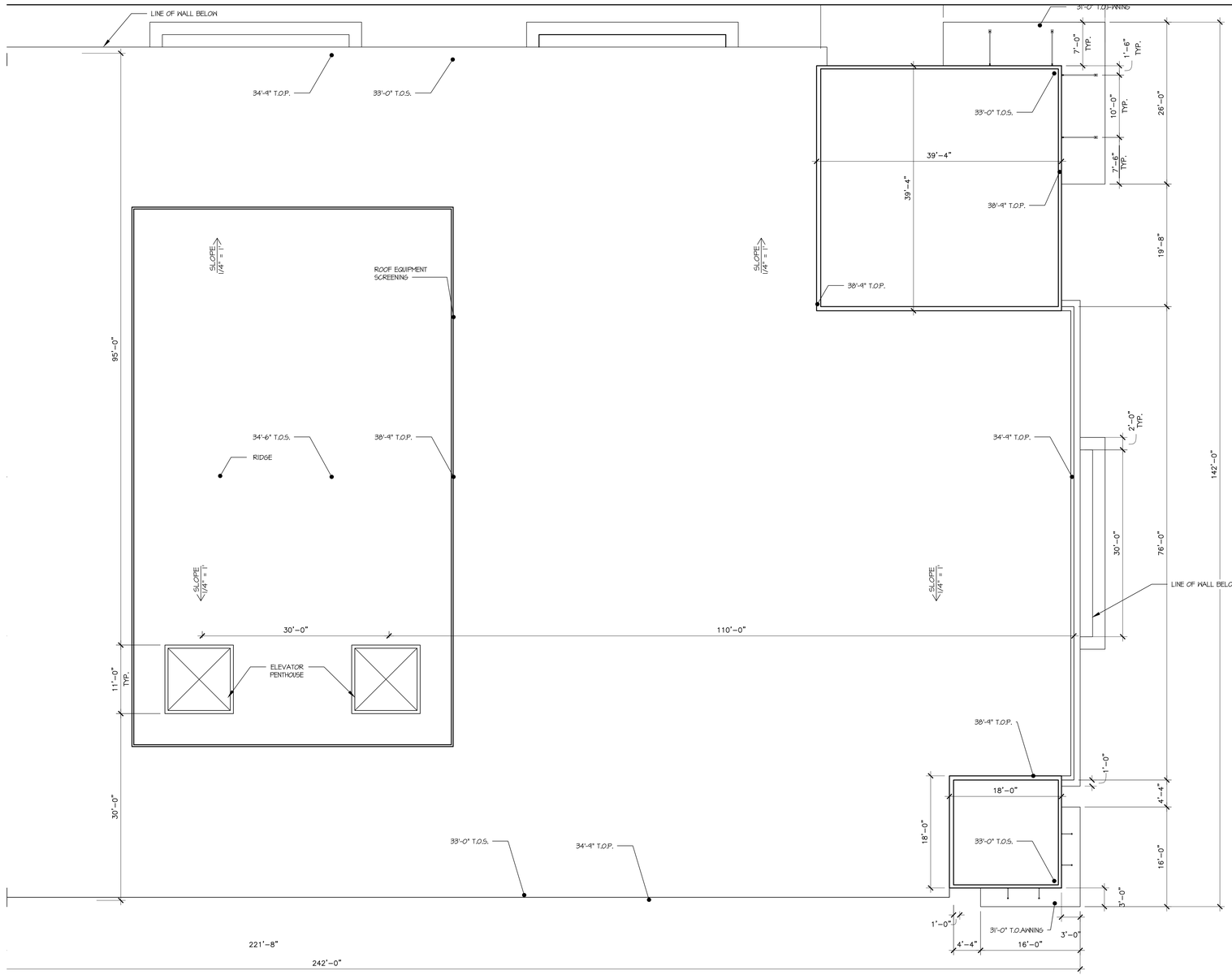
STORAGE UNITS (THIRD FLOOR)

5X5	38	18%
5X10	46	22%
10X10	42	20%
10X15	21	12%
10X20	41	17%
10X25	23	11%
TOTAL:	211	

RNIA

NOVEMBER 26, 2019

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LEGEND

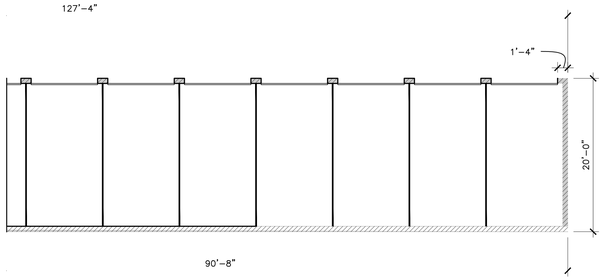
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF ROOF SHEATHING

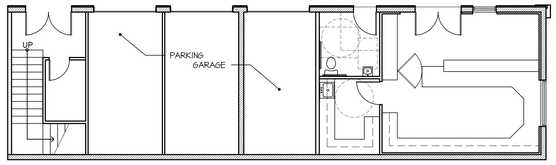
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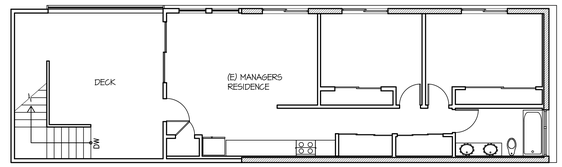




FIRST FLOOR BUILDING 1 (EXISTING)

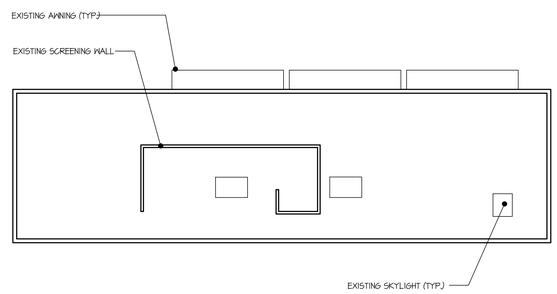
SCALE 1/8" : 1'-0"





SECOND FLOOR BUILDING 1 (EXISTING)

SCALE 1/8" : 1'-0"



ROOF BUILDING 1 (EXISTING)

SCALE 1/8" : 1'-0"

STORAGE UNITS (FIRST FLOOR)

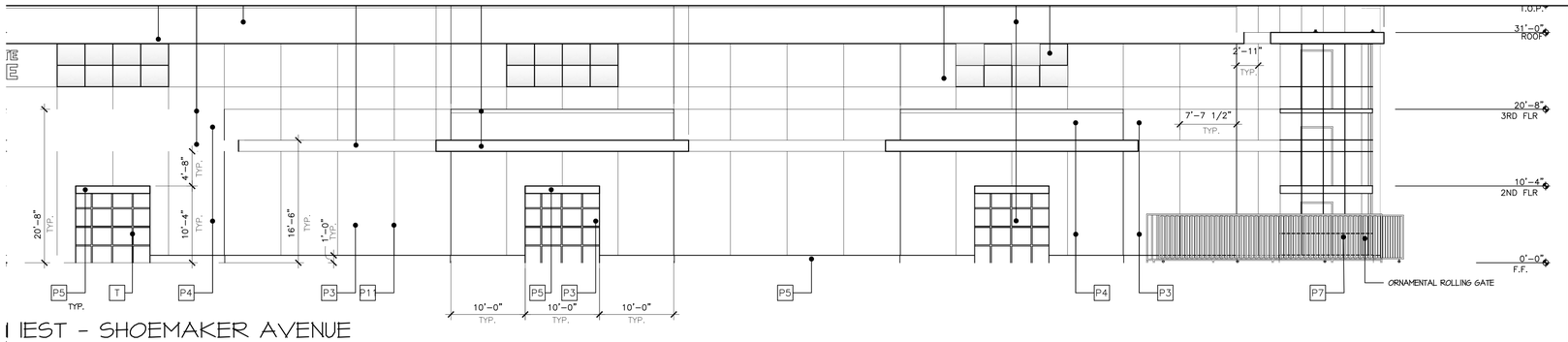
10X20	09	100%
TOTAL:	09	

RNIA

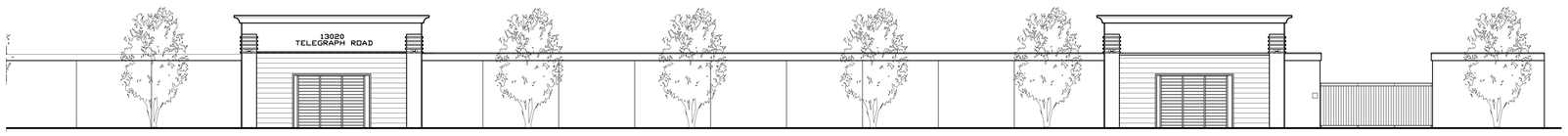
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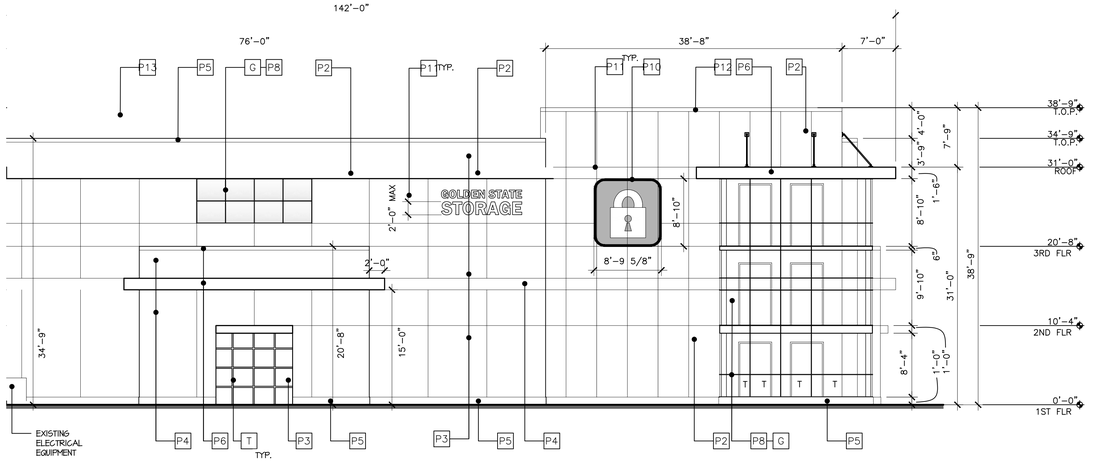
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IEST - SHOEMAKER AVENUE



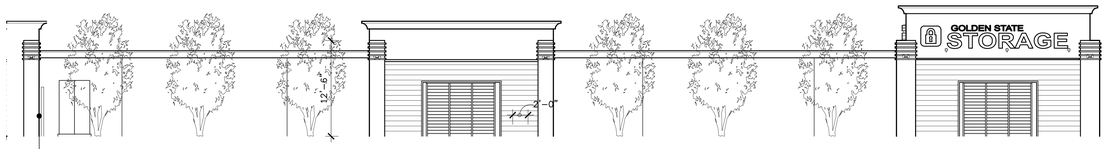
IAKER AVENUE



RAPH ROAD

COLOR / MATERIAL LEGEND

P1	LAPPED SIDING & OVERHEAD DOORS: DUNN EDWARDS: DE 6IT "WINTER MORN"
P2	EXTERIOR PLASTER & ACCENT BANDS: DUNN EDWARDS DE6IRO "BALL OF STRING"
P3	EXTERIOR PLASTER: DUNN EDWARDS DE6227 "MUSLIN"
P4	EXTERIOR PLASTER: DUNN EDWARDS DE6229 "CALICO ROCK"
P5	ACCENT BAND: DUNN EDWARDS DE6230 "CENTER RIDGE"
P6	ACCENT BAND: FORSYTHIA SW 6401
P7	ROLLING GATES: DUNN EDWARDS DE6385 "BLACK BEAN"
P8	ALUMINUM STOREFRONT: MILL FINISH
P9	SIGN LETTERS: "PANTONE BLACK C"
P10	SIGN LOGO: "PANTONE 2955 C"
P11	REVEAL
P12	ACCENT BAND: DUNN EDWARDS DE5818 "BACHELOR BLUE"
P13	ROOF EQUIPMENT SCREENING: DUNN EDWARDS DE6227 "MUSLIN"
G	GLASS: CLEAR
T	METAL TUBE TRELLIS: DUNN EDWARDS DE6385 "BLACK BEAN"

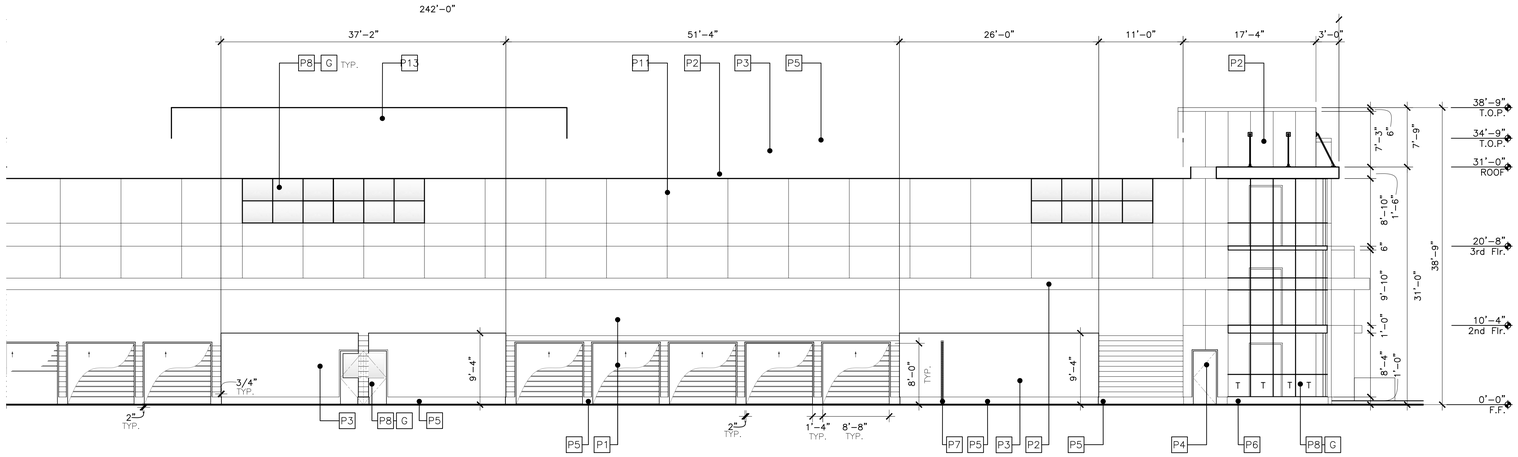


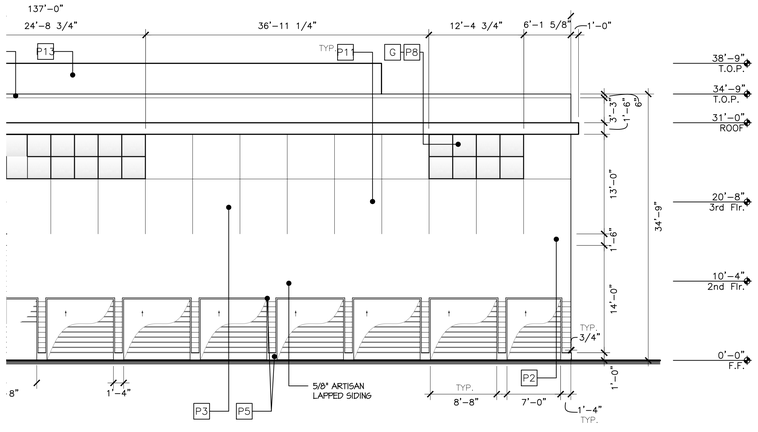
ROAD

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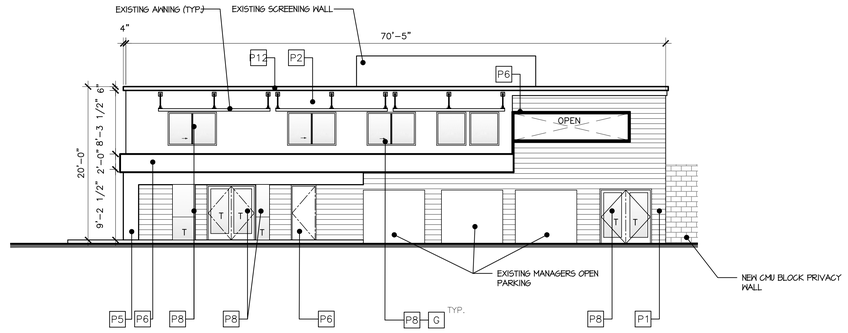
COLOR / MATERIAL LEGEND

- P1 LAPPED SIDING &OVERHEAD DOORS: DUNN EDWARDS: DE 617 "WINTER MORN"
- P2 EXTERIOR PLASTER & ACCENT BANDS: DUNN EDWARDS DE6190 "BALL OF STRING"
- P3 EXTERIOR PLASTER: DUNN EDWARDS DE6221 "MUSLIN"
- P4 EXTERIOR PLASTER: DUNN EDWARDS DE6224 "CALICO ROCK"
- P5 ACCENT BAND: DUNN EDWARDS DE6230 "CENTER RIDGE"
- P6 ACCENT BAND: FORSYTHIA SW 6401
- P7 ROLLING GATES: DUNN EDWARDS DE6385 "BLACK BEAN"
- P8 ALUMINUM STOREFRONT: MILL FINISH
- P9 SIGN LETTERS: "PANTONE BLACK C"
- P10 SIGN LOGO: "PANTONE 2955 C"
- P11 REVEAL
- P12 ACCENT BAND: DUNN EDWARDS DE5878 "BACHELOR BLUE"
- P13 ROOF EQUIPMENT SCREENING: DUNN EDWARDS DE6221 "MUSLIN"
- G GLASS: CLEAR
- T METAL TUBE TRELLIS: DUNN EDWARDS DE6385 "BLACK BEAN"

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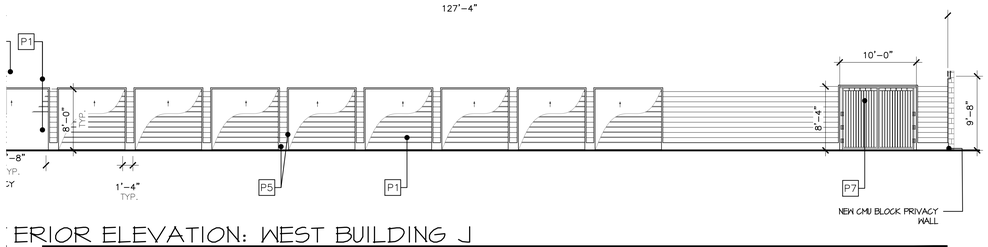
NOVEMBER 26, 2019

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EXTERIOR ELEVATION: WEST BUILDING I (EXISTING)

SCALE 1/8" : 1'-0"



ERIOR ELEVATION: WEST BUILDING J

1/8" : 1'-0"

COLOR / MATERIAL LEGEND

P1	LAPPED SIDING &OVERHEAD DOORS: DUNN EDWARDS: DE 617 "WINTER MORN"
P2	EXTERIOR PLASTER & ACCENT BANDS: DUNN EDWARDS DE6190 "BALL OF STRING"
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P5	ACCENT BAND: DUNN EDWARDS DE6230 "CENTER RIDGE"
P6	ACCENT BAND: FORSYTHIA SW 6907
P7	ROLLING GATES: DUNN EDWARDS DE6385 "BLACK BEAN"
P8	ALUMINUM STOREFRONT: MILL FINISH
P9	SIGN LETTERS: "PANTONE BLACK C"
P10	SIGN LOGO: "PANTONE 2955 C"
P11	REVEAL
P12	ACCENT BAND: DUNN EDWARDS DE5878 "BACHELOR BLUE"
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AVE.

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NOVEMBER 26, 2019

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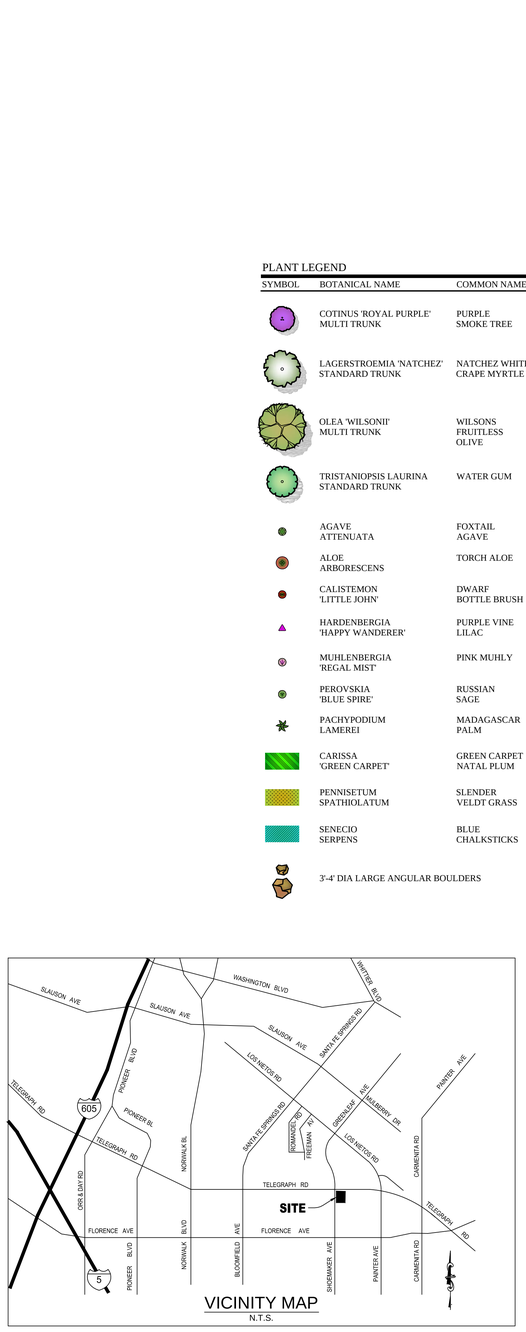
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PLANT LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	WATER USE
	COTINUS 'ROYAL PURPLE' MULTI TRUNK	PURPLE SMOKE TREE	24" BOX	10	LOW
	LAGERSTROEMIA 'NATCHEZ' STANDARD TRUNK	NATCHEZ WHITE CRAPE MYRTLE	24" BOX	7	LOW
	OLEA 'WILSONII' MULTI TRUNK	WILSONS FRUITLESS OLIVE	36" BOX	8	LOW
	TRISTANIOPSIS LAURINA STANDARD TRUNK	WATER GUM	24" BOX	8	LOW
	AGAVE ATTENUATA	FOXTAIL AGAVE	5 GAL	211	LOW
	ALOE ARBORESCENS	TORCH ALOE	5 GAL	58	LOW
	CALISTEMON 'LITTLE JOHN'	DWARF BOTTLE BRUSH	5 GAL	151	LOW
	HARDENBERGIA 'HAPPY WANDERER'	PURPLE VINE LILAC	15 GAL	4	LOW
	MUHLENBERGIA 'REGAL MIST'	PINK MUHLY	1 GAL	924	LOW
	PEROVSKIA 'BLUE SPIRE'	RUSSIAN SAGE	5 GAL	90	LOW
	PACHYPODIUM LAMEREI	MADAGASCAR PALM	15 GAL	8	LOW
	CARISSA 'GREEN CARPET'	GREEN CARPET NATAL PLUM	1 GAL	4580 SF @ 36" OC	LOW
	PENNISETUM SPATHIOLATUM	SLENDER VELDT GRASS	1 GAL	1468 SF @ 24" OC	LOW
	SENECIO SERPENS	BLUE CHALKSTICKS	1 GAL	795 SF @ 24" OC	LOW
	3'-4' DIA LARGE ANGULAR BOULDERS				



VICINITY MAP
N.T.S.



LANDSCAPE NOTES

- All LANDSCAPE AREAS TO BE IRRIGATED WITH AN AUTOMATIC IRRIGATION SYSTEM.
- LANDSCAPING IS TO CONFORM TO ALL APPLICABLE CODES & ORDINANCES.
- PROPERTY OWNER SHALL BE RESPONSIBLE FOR ALL ON-SITE LANDSCAPING AS SHOWN.

Prepared by:
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305 N. Harbor Blvd, Suite 222
Fullerton, California 92832
Tel: (714) 680-0417
California License #3098
Email: charles@emeralddesign.com

Prepared for:
Rasmussen & Associates
21 S. California St. Fourth Floor
Ventura, California 93001
(805) 648-1234

GOLDEN STATE STORAGE

13020 TELEGRAPH ROAD
SANTA FE SPRINGS, CA 90670
A.P.N. 8011-014-017

0 20' 40' 60' 80'
1"=20'-0"

Landscape Conceptual Plan
10/15/19

PUBLIC HEARING

Exemption – CEQA Guidelines §15061(b)(3) - *Activities Covered by General Rule*

General Plan Amendment No. 29

A request for approval to amend the Land Use Element of the City's General Plan, to correct a typographical error related to the maximum building coverage for all properties designated as Business Park. (City of Santa Fe Springs)

RECOMMENDATIONS:

- Open the Public Hearing and receive any comments from the public regarding General Plan Amendment Case No. 29 and, after receiving all public comments, close the Public Hearing; and
- Find and determine the an action to amend the Land Use Element of the City's General Plan, to correct a typographical error related to the maximum building coverage for all properties designated as Business Park, is exempt from the California Environmental Quality Act (CEQA), pursuant to CEQA Guidelines section 15061(b)(3)-Activities Covered by General Rule; and
- Recommend to the City Council, approval of General Plan Amendment Case No. 29, request for approval to amend the Land Use Element of the City's General Plan, to correct a typographical error related to the maximum building coverage for all properties designated as Business Park; and
- Adopt Resolution No. 158-2020, which incorporates the Planning Commission's findings and recommendation regarding this matter.

PROJECT SITE

The affected parcels include all properties within the City of Santa Fe Springs city boundary that is currently designated as Business Park on the City's General Plan map. According to the general plan land use element, said parcels total roughly 104-acres overall.

BACKGROUND / PROJECT DESCRIPTION

The project involves a General Plan Amendment (GPA) that would correct a typographical error relating to the maximum building coverage for properties designated as Business Park on the City's general plan map. The error was recently discovered by staff while reviewing a proposed development project at 9920 Pioneer Boulevard (APN: 8055-010-011). As standard practice when reviewing new development projects, staff reviewed the project for both conformance with the overall purpose and objective of the Zoning Regulations and consistency with the goals, policies and program of the City's General Plan. In doing so, staff discovered that although the M-L, Limited Manufacturing, zone provides for a maximum lot coverage of 50%, the General Plan stated that properties designated as Business Parks were limited to a maximum lot coverage of 25%.

CITY OF SANTA FE SPRINGS – GENERAL PLAN LAND USE ELEMENT

1) Business Parks: A high standard of design control, landscaping, setbacks, etc., should be required in order to create a park-like atmosphere. Offices of all types, particularly company headquarters and research and development activities, are to be encouraged. Industrial uses in this area should be restricted to limited manufacturing, research and light assembly operations. Restaurants and other commercial services catering to industries and their employees and customers are allowed. Oil production, storage or refining should be avoided or should be an intermediate land use. The minimum lot size in the 104 acres of land zoned ML is 25,000 square feet with a maximum building coverage of twenty-five (25) percent.

CITY OF SANTA FE SPRINGS –

Part 7. ML Limited Manufacturing Administration and Research Zone District

155.180 Purpose
155.181 Principal permitted uses
155.182 Accessory uses
155.183 Conditional uses
155.184 Property development standards
155.185 Lot area, width and depth
155.186 Population density
155.187 Building height
155.188 Front yard
155.189 Side yard
155.190 Rear yard
155.191 Permitted encroachments in required yards
155.192 Distance between buildings
155.193 Minimum size of buildings
155.194 Lot coverage

§ 155.194 LOT COVERAGE.

The maximum building coverage shall not exceed 50% of the total lot area.

('64 Code, § 45.17) Penalty, see § 10.97

The proposed project at 9920 Pioneer Boulevard complies with the City's Zoning Ordinance, but the project would not comply with the 25% lot coverage it currently stated in the City's General Plan. Therefore, upon discovering this significant inconsistency, staff began a more thorough investigation of the General Plan files, the various M-L (Limited Manufacturing) Zone Text Amendment files, and past development projects within the surrounding area was completed.

While researching said documents and files, staff discovered the following:

1. Table 1 - Land Use Summary, within the General Plan EIR identifies Mixed Use Industrial/Business Parks as having a 50% density.

TABLE 1
SANTA FE SPRINGS GENERAL PLAN LAND USE SUMMARY

Land Use	Density/ Intensity	Existing Gross Acres	Existing DU/Sq. Ft.[2]	Existing Population[1]	Proposed Gross Acres	Proposed DU/Sq. Ft.[2]	Projected Population[1]	Acres of Change
NON-RESIDENTIAL								
General Commercial	50%	34.79	757,726	n/a	34.79	757,726	n/a	0
Commercial Center	50%	112.35	2,446,983	n/a	112.35	2,446,983	n/a	0
Freeway Commercial	50%	89.73	1,954,319	n/a	89.73	1,954,319	n/a	0
Mixed Use Industrial	50%	103.85	2,261,853	n/a	683.22	14,880,531	n/a	579.37
Light Industrial	50%	188.81	4,112,281	n/a	188.81	4,112,282	n/a	0
Heavy Industrial3	50%	3,441.34	74,952,385	n/a	2,861.97	62,333,706	n/a	579.37
Civic Center	50%	12.80	278,784	n/a	12.80	278,784	n/a	0
Fire Stations	50%	3.01	65,558	n/a	3.01	65,558	n/a	0
Churches	50%	10.82	235,660	n/a	10.82	235,660	n/a	0
Community and Cultural Sites	50%	22.20	483,516	n/a	22.20	483,516	n/a	0
Cemeteries	n/a	21.48	935,669	n/a	21.48	935,669	n/a	0
Parks/Open Space	n/a	111.18	4,843,001	n/a	111.18	4,843,001	n/a	0
Schools	50%	121.49	2,646,052	n/a	121.49	2,646,052	n/a	0
Subtotal		4,273.85	95,973,787	n/a	4,273.85	95,973,787	n/a	0
TOTAL		4,750.54		n/a	4,750.54		n/a	

Santa Fe Springs General Plan Draft EIR
Page 46

2. The Project Description, within the General Plan EIR, identifies a 50% maximum building coverage for properties designated as Business Parks.

PROJECT DESCRIPTION

1. Business Parks

This land use category is subject to a high standard of design control, landscaping and setbacks to create a park-like atmosphere. The area proposed for business parks is located between the Santa Fe Springs residential community and the Southern Pacific Railroad and extends down Telegraph Road and Bloomfield Avenue. Examples of this use include the Heritage Corporate Center and the Town Center Business Park. Offices of all types, particularly company headquarters and research and development activities are to be encouraged. Industrial uses in this area should be restricted to limited manufacturing, research and light assembly operations. Restaurants and other commercial services catering to industries, their employees and customers are permitted. Oil production, storage or refining should be avoided or should be an intermediate land use. Currently, 104 acres of land is zoned ML. The minimum lot size for the business park category is 25,000 square feet with a maximum building coverage of 50%.

Santa Fe Springs General Plan Draft EIR
Page 63

3. An analysis of nearby properties reveal that all adjacent properties designated as Business Park are currently developed with a lot coverage of no less than 38.3%. In fact, the average lot coverage for said properties was 45.9%. This would mean that every single property would be considered non-conforming and could not be developed unless the owner was willing to reduce the coverage to 25% as currently stated within the General Plan.



	Site Address	Acreage	Parcel Sq. Ft.	Building Sq. Ft.	Lot Coverage
	Subject Property at: 9920 Pioneer Blvd	*8.34*	*363,290*	*+/- 158,000*	*43.4%*
1	11909 Telegraph Rd	3.33	+/- 145,054	+/- 57,350	39.5%
2	11949 Telegraph Rd	2.28	+/- 99,366	+/- 40,925	41.1%
3	11755 Telegraph Rd	4.88	+/- 212,572	+/- 81,600	38.3%
4	11738 Willake St	0.71	+/- 31,087	+/- 14,600	46.3%
5	11724 Willake St	0.57	+/- 24,829	+/- 11,900	47.9%
6	11704 Willake St	0.73	+/- 31,714	+/- 16,100	50.8%
7	11705 Willake St	0.73	+/- 31,828	+/- 15,400	49.9%
8	11725 Willake St	0.58	+/- 25,130	+/- 11,900	47.3%
9	11739 Willake St	0.73	+/- 31,969	+/- 14,860	46.4%
10	9916 Pioneer Blvd	0.58	+/- 25,230	+/- 10,300	40.8%
11	11824 Hamden Pl	0.57	+/- 24,880	+/- 12,700	51.0%
12	11842 Hamden Pl	0.93	+/- 40,722	+/- 19,475	47.8%
13	11850 Hamden Pl	0.57	+/- 24,823	+/- 12,550	50.5%
				AVERAGE LOT COVERAGE:	*45.9%*

Report Submitted By: Cuong Nguyen
Planning and Development Department

Date of Report: April 8, 2020

4. An analysis of Zone 12 – An area of study within the General Plan TIA (Traffic Impact Analysis) revealed that the average development within Zone 12 has a building coverage of 34.9%. Once again, confirming that development in and around the area is well above the 25% currently stated within the General Plan.

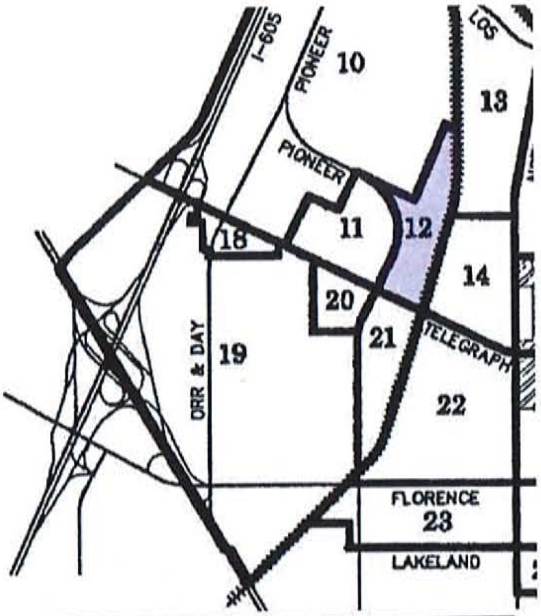


Figure A-1
SFSTM TRAFFIC ANALYSIS ZONE SYSTEM

PARCEL SF	1,323,675 SF
BUILDING SF	463,085 SF
BUILIND COVERAGE	34.9%

5. An analysis of the proposed development project at 9920 Pioneer Blvd, even with an additional 5,849 square feet more than the current development on the subject property, would still fall under the average AM, PM, and Daily trip generation rates compared to the average rate identified for Zone 12 within the General Plan TIA. In the AM, the trip rate for Zone 12 is 14.6% higher. In the PM, the trip rate for the Zone 12 is 24.0% higher. And the daily trip rate is 20.1% higher.

		Trips Analyzed			Trip Rate per 1,000 Square Feet		
	Square Feet	AM	PM	Daily	AM	PM	Daily
General Plan TIA (Zone 12)	460,090	378	381	2859	0.82	0.83	6.21
Proposed Project	163,518	114	103	811	0.70	0.63	4.96

Below is the Derivation of Trip Generation Rates from Appendix A of the General Plan EIR which details the AM and PM peak periods. According to the Traffic Impact Analysis (TIA), the AM trip rate was based on both the In-Bound (IB) and Out-Bound (OB) rates of 1.38 and .24, respectively. The PM trip rate was based on the In-Bound (IB) and Out-Bound (OB) rates of .33 and 1.15, respectively

APPENDIX A

DERIVATION OF TRIP GENERATION RATES

39. Business Park

Business parks consist of a group of one- or two-story buildings served by a common roadway system and may include a mix of offices, retail and wholesale sales, restaurants, recreation, warehousing, manufacturing, light industrial or scientific research functions.

ADT trip generation rate of 14.37 trips per TSF and the corresponding peak hour rates were taken from the ITE rates for Business Park (ITE Code 770). AM peak hour IB and OB rates are 1.38 and .24, respectively, and PM peak hour IB and OB rates are .33 and 1.15, respectively.

STAFF REMARKS

For the reasons provided herein, staff firmly believes that there is more than sufficient evidence to conclude that the 25% maximum building coverage for properties designated as Business Park is clearly a typographical error. Staff is, therefore, seeking to revise the current business park description within the Land Use Element of the City's general plan and correct the inconsistency between the existing general plan document and City's Zoning Ordinance, adopted EIR and TIA, as well as the current built environment of parcels designated as Business Park.

Finding is support for the proposed change and evidence that the subject General Plan Amendment meets the criteria set forth in Sections 65353-65356 of the State Planning, Zoning and Development Laws set forth the procedures for amending the City's General Plan is set forth in the attached Resolution (158-2020).

LEGAL NOTICE OF PUBLIC HEARING

This matter was set for Public Hearing in accordance with the requirements of Sections 65090 et seq. and 65854 of the State Planning, Zoning and Development Laws and the requirements of Sections 155.860 through 155.866 of the City's Municipal Code. Legal notice of the Public Hearing was posted at Santa Fe Springs City Hall and the City's Town Center kiosk. The legal notice was also published in a newspaper of general circulation (Whittier Daily News) on April 2, 2020, as required by the State Zoning and Development Laws and by the City's Zoning Ordinance.

It should be noted that due to the recent Covid-19 (coronavirus) outbreak, Governor Newsome issued Executive Order N-25-20 on March 4, 2020 to temporarily suspend requirements of the Brown Act, which allows the City to hold public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise

electronically to all members of the public. All public hearing notices thus also clarified that the upcoming Planning Commission meeting will be held by teleconference since City Hall, including Council Chambers, is currently closed to the public.

The following ink to the Zoom meeting, along with the meeting ID, password, and dial in information was also provided:

Electronically using Zoom
Go to Zoom.us and click on "Join A Meeting" or use the following link:
https://zoom.us/j/558333944?pwd=b0FqbkV2aDZneVRnQ3BjYU12SmJlQT09

Zoom Meeting ID: 558 333 944
Password: 554545

Telephonically
Dial: 888-475-4499
Meeting ID: 558 333 944

ENVIRONMENTAL DOCUMENT

Following preliminary evaluation of the proposed action, it has determined that an action to amend the Land Use Element of the City's General Plan, to correct a typographical error related to the maximum building coverage for all properties designated as Business Park, is exempt from the California Environmental Quality Act (CEQA), pursuant to CEQA Guidelines section 15061(b)(3). According to Guidelines §15061(b)(3):

> *"An activity is covered by the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA."*

The determination that the project is exempt is based on the following:

- The proposed action is merely a paper change to correct a typographical error within the Land Use Element.
- The change is consistent with the existing limitations already set forth in the City's Zoning Ordinance.
- The change is consistent with text and analysis that was provided within the EIR which was prepared and adopted for the last General Plan Update in 1994.
- The change does not automatically allow for new developments to occur. All future development project would still need to obtain the necessary entitlements beforehand.

Staff intends to file a Notice of Exemption (NOE) with the Los Angeles County Clerk,

within five (5) days of project approval, if the Planning Commission is in agreement with said determination.

AUTHORITY OF PLANNING COMMISSION

The Planning Commission has the authority, subject to the procedures set forth in the Government Code, to make a written recommendation on the adoption or amendment of a general plan to the City Council. A recommendation for approval shall be made by the affirmative vote of not less than a majority of the total membership of the commission.

Wayne M. Morrell
Director of Planning

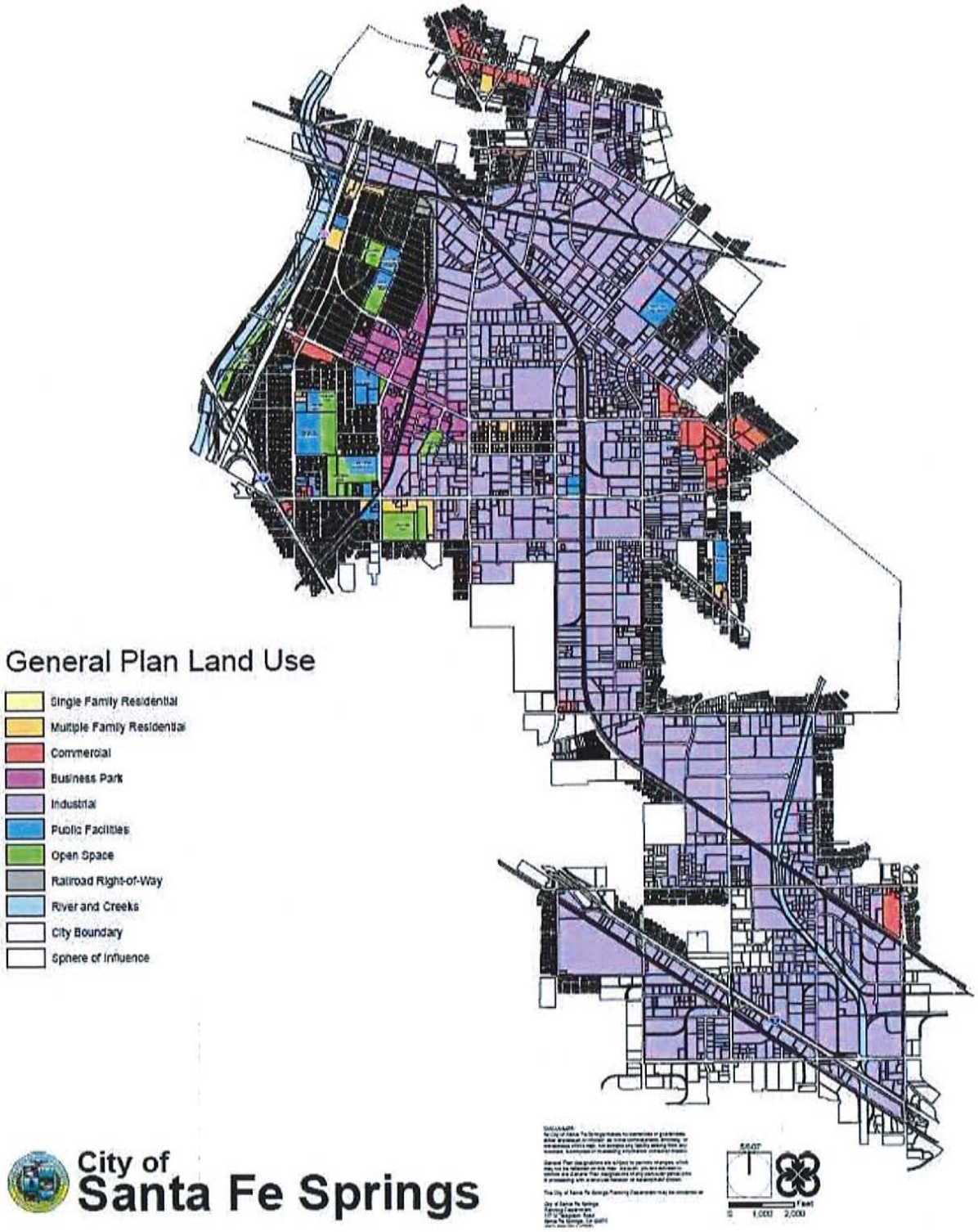
Attachments:

1. Overall General Plan Map
2. Map of Properties Designated as Business Park
3. Public Hearing Notice
4. Resolution No. 158-2020

Report Submitted By: Cuong Nguyen
Planning and Development Department

Date of Report: April 8, 2020

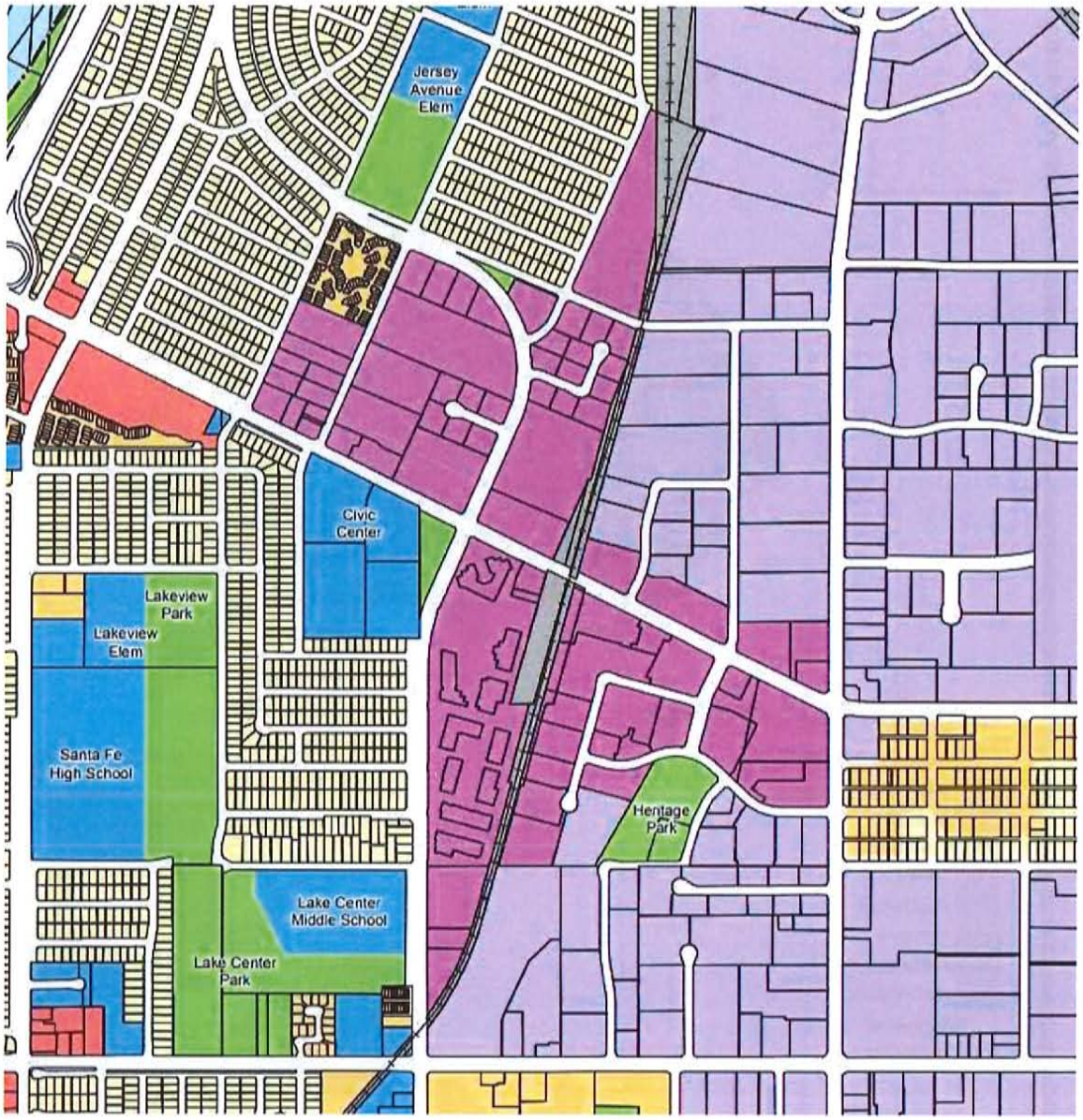
Attachment 1 - Overall General Plan Map



Report Submitted By: Cuong Nguyen
Planning and Development Department

Date of Report: April 8, 2020

Attachment 2 - Map of Properties Designated as Business Park



Report Submitted By: Cuong Nguyen
Planning and Development Department

Date of Report: April 8, 2020

Attachment 3 - Public Hearing Notice

Advertising Order Confirmation

CITY OF SANTA FE SPRINGS
NOTICE OF PUBLIC HEARING
GENERAL PLAN AMENDMENT NO. 29

NOTICE IS HEREBY GIVEN: that the Planning Commission of the City of Santa Fe Springs will hold a Public Hearing to consider the following:

GENERAL PLAN AMENDMENT NO. 29: A request for approval to amend the Land Use Element of the City's General Plan, to correct a typographical error related to the maximum building coverage for all properties designated as Business Park.

PROJECT SITE: The affected parcels include all properties within the City of Santa Fe Springs city boundary that is currently designated as Business Park on the City's General Plan map.

APPLICANT: City of Santa Fe Springs

THE HEARING will be held on **Monday, April 13, 2020 at 6:00 p.m.** Governor Newsome issued Executive Order N-25-20 on March 4, 2020 to temporarily suspend requirements of the Brown Act, which allows the City to hold public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise electronically to all members of the public. Please be advised that until further notice, Planning Commission meetings will be held by teleconference. City Hall, including Council Chambers, is closed to the public.

You may attend the meeting telephonically or electronically using the following means:

Electronically using Zoom
Go to Zoom.us and click on "Join A Meeting" or use the following link:
https://zoom.us/j/558333944?pwd=b0FqbkV2aDZneVRnQ3BjYU12SmJIQT09

Zoom Meeting ID: 558 333 944
Password: 554545

Telephonically
Dial: 888-475-4499
Meeting ID: 558 333 944

CEQA STATUS: After review and analysis, staff intends to file a Notice of Exemption (if the Planning Commission agrees), for a "General Rule" exemption as described and otherwise provided by Section 15061 (b)(3) of the California Environmental Quality Act (CEQA) Guidelines.

ALL INTERESTED PERSONS are invited to participate in the Planning Commission hearing and express their opinion on the item listed above. Please note that if you challenge the afore-mentioned item in court, you may be limited to raising only those issues you or someone else raised at the Public Hearing, or in written correspondence received prior to the Public Hearing.

PUBLIC COMMENTS may be submitted in writing by sending them to the Planning Program Assistant at teresacavallo@santafesprings.org. To ensure that they are received for the meeting, please submit your written comments prior to 4:00 p.m. on the day of the Planning Commission meeting. You may also contact the Planning Department at (562) 868-0511 ext. 7550.

FURTHER INFORMATION on this item may be obtained by e-mail: cuongnguyen@santafesprings.org.

Wayne M. Morrell
Director of Planning
City of Santa Fe Springs
11710 Telegraph Road
Santa Fe Springs, CA 90670
Published: April 2, 2020 **Whittier Daily News** **Ad#11377105**

Report Submitted By: Cuong Nguyen
Planning and Development Department

Date of Report: April 8, 2020

Attachment 4 - Resolution No. 158-2020

CITY OF SANTA FE SPRINGS
RESOULTION NO. 158-2020

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SANTA FE SPRINGS REGARDING GENERAL PLAN AMENDMENT CASE NO. 29.

WHEREAS, this project is a city-initiated General Plan Amendment (GPA Case No. 29) to amend the Land Use Element of the City's General Plan, to correct a typographical error related to the maximum building coverage for all properties designated as Business Park; and

WHEREAS, the affected parcels include all properties within the City of Santa Fe Springs city boundary that is currently designated as Business Park on the City's General Plan map.

WHEREAS, according to the general plan land use element, the affected parcels total roughly 104-acres overall; and

WHEREAS, the proposed General Plan Amendment Case No. 29 is considered a project as defined by the California Environmental Quality Act (CEQA), Article 20, Section 15378(a); and

WHEREAS, based on information received, the Planning Commission finds that the proposed project meets the criteria for an exemption, pursuant to California Environmental Quality Act (CEQA), Section 15061(b)(3) (Common Sense Rule); and

WHEREAS, the City of Santa Fe Springs Planning and Development Department on April 2, 2020, published a legal notice in the *Whitter Daily News,* a local paper of general circulation, indicating the date and time of the public hearing. Said notice was also posted at the Santa Fe Springs City Hall and the City's Town Center kiosk; and

WHEREAS, the City of Santa Fe Springs Planning Commission has the written and oral staff report, the testimony, written comments, and other materials presented at the public hearing; and

WHEREAS, the City of Santa Fe Springs Planning Commission conducted a duly noticed public hearing, by teleconference, on April 13, 2020. At which time it received and considered public testimony concerning General Plan Amendment Case No. 29.

NOW, THEREFORE, be it RESOLVED that the PLANNING COMMISSION of the CITY OF SANTA FE SPRINGS does hereby RESOLVE, DETERMINE and ORDER AS FOLLOWS:

SECTION I. ENVIRONMENTAL FINDINGS AND DETERMINATION

Pursuant to Section 15061(b)(3) (Common Sense Rule) of the California Environmental Quality Act (CEQA), the Planning Commission hereby finds and determines that the project is exempt. The Common Sense Exemption affirms that CEQA applies only to projects which have the potential for causing a significant effect on the environment. If it can be seen with certainty that there is no possibility that the activity in question will have a significant effect on the environment than additional environmental analysis is not necessary to meet the requirements of CEQA. Based on the information received, the Planning Commission finds that a determination to correct a typographical error related to the maximum building coverage for all properties designated as Business Park would not have any significant effect on the environment. The Planning Commission's determination for said exemption is based on the following:

1. The proposed action is merely a paper change to correct a typographical error within the Land Use Element; and
2. The change is consistent with the existing limitations already set forth in the City's Zoning Ordinance; and
3. The change is consistent with text and analysis that was provided within the EIR which was prepared and adopted for the last General Plan Update in 1994; and
4. The change does not automatically allow for new developments to occur. All future development project would still need to obtain the necessary entitlements beforehand.

SECTION II. GENERAL PLAN AMENDMENT FINDINGS

Sections 65353-65356 of the State Planning, Zoning and Development Laws set forth the procedures for amending the City's General Plan. Specifically, the State Planning Laws dictate that at least one public hearing shall be conducted on the proposed General Plan Amendment, the Commission shall make a written recommendation on the adoption or amendment of the general plan, a recommendation for approval shall be made by affirmative vote of not less than a majority of the total membership of the Commission; and the Planning Commission shall send its recommendation to the legislative body. Other than the aforementioned requirements, there are no mandatory findings that the Planning Commission must make before recommending approval or denial of a request to amend the City's General Plan. However, in previous considerations of proposed General Plan Amendments, the Planning Commission has reviewed the request based on the following criteria:

A) *That the Amendment will not distort or disturb the harmonious relationships of land use designations shown on the General Plan Map and would not disturb the relationship of the various elements of the General Plan.*

An action to correct a typographical error related to the maximum building coverage for all properties designated as Business Park will not distort or disturb the relationship of land use designations shown on the General Plan Map and would not disturb the relationship of the various elements of the General Plan. The proposed change is a change to the existing text within the Land Use element of the General Plan. It will not change or otherwise alter the existing General Plan Map or designation of any properties on the existing map.

Additionally, the proposed change only involves the Land Use element does not involve changes to any other elements of the General Plan thus there is no evidence to suggest that the proposed General Plan Amendment will disturb the relationship between other elements of the General Plan.

B) *That the property involved in the requested Amendment is suitable for the uses permitted in the proposed land use designation.*

The project involves a General Plan Amendment (GPA) that would correct a typographical error relating to the maximum building coverage for properties designated as Business Park on the City's general plan map. There are no proposed changes to the zoning or land use designation of any particular parcel or area within the City. All properties designated as Business Park on the City's General Plan map will still need to comply with the existing regulations set forth in the City's Zoning Ordinance and General Plan. Since land use of all properties involve will remain unchanged as a result of the proposed GPA, its suitability thus also remains unchanged.

C) *That the proposed land use designation would not be detrimental to persons or properties in the surrounding area nor to the community in general.*

The General Plan Amendment does not involve any changes to the list of land uses currently identified within the City's General Plan nor does it change the designation of any particular parcel within the City. As mentioned previously, the proposed change is to correct a typographical error relating to the maximum building coverage for properties designated as Business Park on the City's general plan map.

Prior to initiating the General Plan Amendment, a thorough investigation of the General Plan files, the various M-L (Limited Manufacturing) Zone Text Amendment files, and past development projects within the surrounding area was completed. The research of said documents and files, revealed the following:

1. Table 1 - Land Use Summary, within the General Plan EIR identifies Mixed Use Industrial/Business Parks as having a 50% density; and

2. The Project Description, within the General Plan EIR, identifies a 50% maximum building coverage for properties designated as Business Parks; and
3. An analysis of nearby properties reveal that all adjacent properties designated as Business Park are currently developed with a lot coverage of no less than 38.3%. In fact, the average lot coverage for said properties was 45.9%. This would mean that every single property would be considered non-conforming and could not be developed unless the owner was willing to reduce the coverage to 25% as currently stated within the General Plan; and
4. An analysis of Zone 12 – An area of study within the General Plan TIA (Traffic Impact Analysis) revealed that the average development within Zone 12 has a building coverage of 34.9%. Once again, confirming that development in and around the area is well above the 25% currently stated within the General Plan; and
5. An analysis of the proposed development project at 9920 Pioneer Blvd, even with an additional 5,849 square feet more than the current development on the subject property, would still fall under the average AM, PM, and Daily trip generation rates compared to the average rate identified for Zone 12 within the General Plan TIA. In the AM, the trip rate for Zone 12 is 14.6% higher. In the PM, the trip rate for the Zone 12 is 24.0% higher. And the daily trip rate is 20.1% higher.

This evidence and conclusions, therefore, clearly suggests that the 25% maximum building coverage for properties designated as Business Park is clearly a typographical error. Therefore, the proposed revision of the current business park description within the Land Use Element of the City's general plan is simply to correct the inconsistency between the existing general plan document and City's Zoning Ordinance, adopted EIR and TIA, as well as the current built environment of parcels designated as Business Park. The proposed General Plan Amendment, therefore, would not be detrimental to persons or properties in the surrounding area nor to the community in general.

SECTION III. PLANNING COMMISSION ACTION

The Planning Commission hereby adopts Resolution No. 158-2020 to determine that the that the proposed project meets the criteria for an exemption, pursuant to California Environmental Quality Act (CEQA), Section 15061(b)(3) (Common Sense Rule) and to recommend approval of General Plan Amendment Case No. 29 to amend the Land Use Element of the City's General Plan and correct a typographical error related to the maximum building coverage for all properties designated as Business Park, to the City Council.

ADOPTED and APPROVED this 13th day of April, 2020 BY THE PLANNING COMMISSION OF THE CITY OF SANTA FE SPRINGS.

_____
Frank Ybarra, Chairperson

ATTEST:

_____
Teresa Cavallo, Planning Secretary

PUBLIC HEARING

Adoption of Mitigated Negative Declaration
Tentative Parcel Map (TPM) No. 82433
Development Plan Approval (DPA) Case Nos. 947-949

TPM No. 82433: A request for approval to subdivide the subject ±9.06-acres gross (±8.34-acres net) parcel at 9920 Pioneer Boulevard (APN: 8055-010-011) into two separate parcels measuring 5.08-acres and 3.26-acres, respectively;

DPA Case Nos. 947-949: DPA Case No. 947 - a request for approval to allow the construction of an approximately 103,950 sq. ft. concrete tilt-up industrial building (Building 1), DPA Case No. 947 - a request for approval to allow the construction of an approximately 28,146 sq. ft. concrete tilt-up industrial building (Building 2); and DPA Case No. 947 - a request for approval to allow the construction of a 31,422 sq. ft. concrete tilt-up industrial building (Building 3) on property located at 9920 Pioneer Boulevard (APN: 8055-010-011), within the M-L (Limited Manufacturing) Zone; (The Brookhollow Group)

RECOMMENDATIONS:

- Open the Public Hearing and receive any comments from the public regarding Tentative Parcel Map No. 82433, Development Plan Approval Case Nos. 947-949, and related Environmental Documents, and thereafter, close the Public Hearing; and
- Find and determine that the proposed project will not be detrimental to persons or properties in the surrounding area or to the City in general, and will be in conformance with the overall purpose and objective of the Zoning Regulations and consistent with the goals, policies and program of the City's General Plan; and
- Find that Tentative Parcel Map No. 82433 meets the standards set forth in Sections 66474 and 66474.6 of the Subdivision Map Act for the granting of a tentative or final map; and
- Find that the applicant's DPA requests meet the criteria set forth in §155.739 of the City's Zoning Ordinance, for the granting of a Development Plan Approval; and
- Approve and adopt the proposed Mitigated Negative Declaration which, based on the findings of the initial study, indicates that although potential significant effects on the environment have been identified, revisions in the project plan or proposal made by, or agreed to by, the applicant, would avoid the effects or mitigate the effects to a point where clearly no significant effects on the environment would occur, and there is no substantial evidence in light of the whole record that the project, as revised, may have a significant effect on the environment; and

Report Submitted By: Cuong Nguyen
Planning and Development Department

Date of Report: April 8, 2020

ITEM NO. 10

RECOMMENDATIONS (Cont.)

- Approve the proposed Mitigation Monitoring and Reporting Program (MMRP) for the proposed project; and
- Approve Tentative Parcel Map No. 8256 and Development Plan Approval Case Nos. 947-949, subject to the conditions of approval as contained with Resolution No. 159-2020; and
- Adopt Resolution No. 159-2020, which incorporates the Planning Commission's findings and actions regarding this matter.

GENERAL INFORMATION

A.	Applicant:	The Brookhollow Group 151 Kalmus Drive, Suite F-1 Costa Mesa, CA 92626 (714) 850-3906 rknapp@thebrookhollowgroup.com
B.	Property Owner:	KOLL/PER Santa Fe Springs, LLC 151 Kalmus Drive, Suite F-1 Costa Mesa, CA 92626 (714) 850-3906 rknapp@thebrookhollowgroup.com
C.	Subject Property:	9920 Pioneer Boulevard APN: 8055-010-011 Santa Fe Springs, CA 90670
D.	Existing Zone:	M-L (Limited Manufacturing)
E.	General Plan:	Business Park
F.	CEQA Recommendation:	Mitigated Negative Declaration
H.	Staff Contact:	Cuong Nguyen, Senior Planner cuongnguyen@santafesprings.org Phone: (562)-868-0511 Ext 7359

LOCATION / BACKGROUND

The subject property, at 9920 Pioneer Boulevard, is located on the east side of Pioneer Boulevard approximately 250 feet north of Telegraph Road and 140 feet south of Hamden Place. The subject property is comprised of a single parcel (APN: 8055-010-011) measuring approximately ±9.06-acres gross (±8.34-acres net). The property is zoned M-L (Limited Manufacturing) and is currently developed with seven buildings (totaling approximately 158,000 square feet) and their associated surface parking and landscape areas.

The applicant, The Brookhollow Group, is proposing to clear the site and thereafter construct three (3) new concrete tilt-up industrial buildings on the subject property. In accordance with the City's Zoning Regulations, a Development Plan Approval is required for the proposed development. The applicant is also concurrently requesting consideration and approval for a Tentative Parcel Map to subdivide the existing ±9.06-acres gross (±8.34-acres net) site into two separate parcels measuring 5.08-acres and 3.26-acres, respectively. The gross square footage includes a street and utility easement recorded in 1972 in favor of the City of Santa Fe Springs.

PROJECT DESCRIPTION

The proposed project requires approval of the following entitlement:

Tentative Parcel Map (TPM 82433) – A request for approval to subdivide the subject ±9.06-acres gross (±8.34-acres net) parcel (APN: 8055-010-011) into two separate parcels measuring 5.08-acres and 3.26-acres, respectively

Development Plan Approvals (DPA Nos. 947–949) – DPA Case No. 947 - a request for approval to allow the construction of an approximately 103,950 sq. ft. concrete tilt-up industrial building (Building 1), DPA Case No. 947 - a request for approval to allow the construction of an approximately 28,146 sq. ft. concrete tilt-up industrial building (Building 2); and DPA Case No. 947 - a request for approval to allow the construction of a 31,422 sq. ft. concrete tilt-up industrial building (Building 3).

TENTATIVE PARCEL MAP (TPM 82433)

The proposed Tentative Parcel Map (TPM) will effectively subdivide the subject site, which is currently comprised of a single parcel measuring approximately ±9.06-acres gross (±8.32-acres net), into two separate parcels measuring 5.08-acres (Parcel 1) and 3.26-acres (Parcel 2), respectively.

As shown in the attached TPM, the project will involve a condo map for parcel 2. The condo map effectively creates industrial condominiums for the two buildings that are proposed on Parcel 2. This would allow each building to be separately owned but the potential owners would also have equal ownership of the remaining common areas that make up Parcel 2. The condo map avoided placement of Building 3 on a land-locked parcel or otherwise a need to create a flag-shaped lot for Building 3, and neither alternatives would have been supported by staff.

DEVELOPMENT PLAN APPROVALS (DPA Nos. 947–949)

Site Plan

The applicant is planning to demolish the seven (7) existing buildings, totaling approximately 158,000 square feet, and thereafter proposing to construct three (3) new concrete tilt-up industrial buildings, ranging from 28,146 sq. ft. to 103,950 sq. ft. in size.

The building sizes are as follows:
Building 1 – 103,950 sq. ft.
Building 2 – 28,146 sq. ft.
Building 3 – 31,422 sq. ft.

Overall Proposed Development is:
163,518 sq. ft.

The street facing buildings will be setback a minimum 36' from the front property line along Pioneer Boulevard: Building A will be setback 82.325' while Building B will be setback 36'. The proposed development will provide three (3) driveways along Pioneer Boulevard for ingress and egress: a 26' wide driveway along the north end, a 35' wide driveway in the center, and a 30' wide driveway along the south end. Parking will be provided and individually met for both Parcel 1 and 2.

Floor Plan
The floor plans indicate that the proposed industrial buildings will provide the following:

	Warehouse	1st Floor	2nd Floor Office	Total
Building 1	99,950 sq. ft.	4,500 sq. ft.	4,500 sq. ft.	103,950 sq. ft.
Building 2	23,146 sq. ft.	2,500 sq. ft.	2,500 sq. ft.	28,146 sq. ft.
Building 3	26,422 sq. ft.	2,500 sq. ft.	2,500 sq. ft.	31,422 sq. ft.

Elevations
The elevations indicate that the proposed industrial buildings will have a contemporary design. The primary street facing elevations are all provided with extensive glazing, color variation, height variation, recessed walls, and materials used. The remaining elevations have also been provided with a combination of the aforementioned architectural treatments, resulting in aesthetically pleasing contemporary industrial buildings throughout the proposed development.

Landscape Requirement
For maximum value, majority of the landscaping will be provided along the setback areas that adjoins the street (Pioneer Boulevard). Additionally, as required by the Code, the applicant will landscape at least 6% of the parking area.

For Parcel 1, the minimum landscape requirement, based on the overall street frontage of 388', and 25,945 sq. ft. of parking area, is an overall total of 11,257 sq. ft. and at least 1,557 sq. ft. of landscape within the parking area. The applicant is providing an overall total of 22,420 sq. ft. of landscaping and 13,224 sq. ft. within the parking area, thus Parcel 1 exceeds the minimum requirements set forth in the City's Zoning Ordinance.

LANDSCAPE REQUIRED:	
FRONTAGE: 25' X 388' = 9,700 SF	9,700 SF
6% OF PARKING AREA) = 25,945 SF X .06	1,557 SF
TOTAL LANDSCAPE REQUIRED:	11,257 SF
LANDSCAPE PROVIDED: (13,224 SF PARKING LANDSCAPE)	22,420 SF

For Parcel 2, the minimum landscape requirement, based on the overall street frontage of 254', and 35,683 sq. ft. of parking area, is an overall total of 8,491 sq. ft. and at least 2,141 sq. ft. of landscape within the parking area. The applicant is providing an overall total of 16,673 sq. ft. of landscaping, and 10,913 sq. ft. within the parking area, thus Parcel 2 exceeds the minimum requirements set forth in the City's Zoning Ordinance

LANDSCAPE REQUIRED:	
FRONTAGE: 25' X 254' = 6,350 SF	6,350 SF
6% OF PARKING AREA) = 35,683 SF X .06	2,141 SF
TOTAL LANDSCAPE REQUIRED:	8,491 SF
LANDSCAPE PROVIDED: (10,913 SF PARKING LANDSCAPE)	16,673 SF

Parking Requirements

Building 1 (on Parcel 1) is required to provide a total of 151 parking stalls. A total of 162 parking stalls are being provided for Building 1. It should be noted that since Building 1 exceeds 100,000 sq. ft., truck parking at a ratio of one 12' x 53' truck stall for every four truck doors must be provided in addition to the standard parking requirements. Building 1 is designed with 11 truck doors, thus three truck stalls must also be provided. The three required truck stalls are provided within the southerly truck yard area.

PARKING REQUIRED:	
0 - 20,000 SF (1/500 SF)	40 STALLS
20,001 SF - 100,000 SF (1/750 SF)	107 STALLS
100,001 SF - 200,000 SF (1/1,000 SF)	4 STALLS
200,001 SF AND ABOVE (1/2,000 SF)	00 STALLS
TOTAL STALLS	151 STALLS
PARKING PROVIDED:	
ACCESSIBLE STALLS	6 STALLS
STANDARDS STALLS	118 STALLS
COMPACT STALLS (25% MAX)	38 STALLS
TOTAL STALLS	162 STALLS

Buildings 2 and 3 (on Parcel 2) are required to provide a total of 106 parking stalls. A total of 109 parking stalls are being provided for Buildings 2 and 3. Since neither building exceeds 100,000 sq. ft., there is no additional requirement to provide truck stalls.

PARKING REQUIRED:	
0 - 40,000 SF (1/500 SF)	80 STALLS
40,001 SF - 100,000 SF (1/750 SF)	26 STALLS
100,001 SF - 200,000 SF (1/1,000 SF)	00 STALLS
200,001 SF AND ABOVE (1/2,000 SF)	00 STALLS
TOTAL STALLS	106 STALLS

PARKING PROVIDED:	
ACCESSIBLE STALLS	6 STALLS
STANDARDS STALLS	95 STALLS
COMPACT STALLS (25% MAX)	8 STALLS
TOTAL STALLS	109 STALLS

Loading/ Roll Up Doors

According to the plans, the three proposed buildings will be designed with a total of 19 dock doors (Bldg. 1: 11, Bldg. 2: 4, and Bldg. 3: 4) and 4 roll-up doors (Bldg. 1: 2, Bldg. 2: 1, and Bldg. 3: 1). It should be noted that all dock and roll-up doors are strategically placed so that they will not be directly visible from the street. Additionally, per the City's Zoning Ordinance, all off-street truck loading areas, zones, ramps, doors, wells, or docks shall be designed to provide and maintain a minimum unobstructed area of 120' to allow for proper truck maneuvering on-site. The proposed development has been designed to provide the required unobstructed area in all necessary locations.

Trash Enclosures

According to the site plan, four (4) trash enclosures will be located throughout the subject project. A total of two 358 sq. ft. trash enclosures will be provided for Parcel 1 (Building 1) and two 283 sq. ft. trash enclosures will be provided for Parcel 2 (Building 2 and 3). All trash enclosures are strategically placed in areas that will not be immediately visible or otherwise easily accessible to the public

GENERAL PLAN AMENDMENT NO. 29

Although it is not a part of the subject entitlements, the outcome of the city-initiated General Plan Amendment (GPA Case No. 29) will have a direct affect on the subject property and development. Although the proposed project does fully comply with the City's Zoning Ordinance, the development does not comply with the General Plan as it is currently stated. Until the GPA is approved by the City Council, the project is in conflict with the 25% maximum building coverage currently listed for properties designated as Business Park on the City's general plan map. As proposed, the lot coverage for the proposed development is 43.4%. Because the outcome of the GPA is still unknown, yet the applicant is anxious to move forward, staff has place a condition to acknowledge that the approval of the subject Tentative Parcel Map (TPM Case No. 82433) and Development Plan Approvals (DPA Case Nos. 947-949) is contingent upon the approval of GPA Case No. 29 by the City Council.

STREETS AND HIGHWAYS

The subject site is located on the east side of Pioneer Boulevard between Telegraph Road and Hamden Place. Both Telegraph Road and Pioneer Boulevard are designated as a "Major" arterial, within the Circulation Element of the City's General Plan. Hamden Place is a local industrial street.

ZONING, GENERAL PLAN AND LAND USE

The subject property is currently zoned M-L, Limited Manufacturing, with a general plan land use designation of "Business Park". The existing uses that occupy the subject property are as follows: Various offices, warehouse-type uses, light manufacturing uses, and a restaurant (sandwich shop).

The existing Zone, General Plan and Land Use of the adjacent properties are shown in "Table 1" below:

	Zone	General Plan	Land Use
North	ML, Limited Manufacturing	Business Park	9916 Pioneer Bl: Computer consultants. 11824-42 Hamden Pl: Audio/Visual consultants; Fire Protection consultants.
South	ML-D, Limited Manufacturing-Design Overlay	Business Park	11841-11909 Telegraph Rd: Professional IT service consultants; Water Filtration Dealer; Computer specialist.
East	M-2, Heavy Manufacturing	Industrial	10035-10261 Matern Pl: Sales and service or boilers and pumps; distributor of indirect industrial supplies.
West	ML, Limited Manufacturing	Business Park	11704-11739 Willake St: Party Rental warehouse; TV studio; Alternative power technology dealer; indoor landscape maintenance service provider. 11755 Telegraph Rd: Caster and wheel distributor; Volvo training facility; water systems consultants.

LEGAL NOTICE OF PUBLIC HEARING

This matter was set for Public Hearing in accordance with the requirements of Sections 65090 and 65091 of the State Planning, Zoning and Development Laws and the requirements of Sections 155.860 through 155.864 of the City's Municipal Code.

Legal notice of the Public Hearing for the proposed project was sent by first class mail to all property owners whose names and addresses appear on the latest County Assessor's Roll within 500 feet of the exterior boundaries of the subject property on April 1, 2020. The legal notice was also posted in Santa Fe Springs City Hall and the City's Town Center kiosk on April 1, 2019, and published in a newspaper of general circulation (Whittier Daily News) April 2, 2020, as required by

the State Zoning and Development Laws and by the City's Zoning Regulations. As of the date of this report, staff has not received any comments and/or inquiries regarding the proposed project.

It should be noted that due to the recent Covid-19 (coronavirus) outbreak, Governor Newsome issued Executive Order N-25-20 on March 4, 2020 to temporarily suspend requirements of the Brown Act, which allows the City to hold public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise electronically to all members of the public. All public hearing notices thus also clarified that the upcoming Planning Commission meeting will be held by teleconference since City Hall, including Council Chambers, is currently closed to the public.

The following ink to the Zoom meeting, along with the meeting ID, password, and dial in information was also provided:

Electronically using Zoom
Go to Zoom.us and click on "Join A Meeting" or use the following link:
https://zoom.us/j/558333944?pwd=b0FqbkV2aDZneVRnQ3BjYU12SmJlQT09

Zoom Meeting ID: 558 333 944
Password: 554545

Telephonically
Dial: 888-475-4499
Meeting ID: 558 333 944

ENVIRONMENTAL DOCUMENTS

The environmental analysis provided in the Initial Study (IS) indicates that although the proposed project could have a significant effect on the environment, revisions have been made or mitigation measures have been included which will reduce potential impacts to less-than-significant effects. Therefore, the City caused to be prepared and proposes to adopt a Mitigated Negative Declaration (MND) for the proposed project. The draft IS/MND reflects the independent judgment of the City of Santa Fe Springs and the environmental consultant, E|P|D Solutions Inc. as to the potential environmental impacts of the proposed project on the environment.

Environmental Factors Requiring Mitigations:
The draft IS/MND has identified several factors that may have a potentially significant affect the subject project, if mitigations are not imposed. Such factors include: Biological Resources, Geology and Soils, Cultural Resources, Tribal Cultural Resources, and Hazardous & Hazardous Materials. These factors and their respective pertinent issues are discussed and analyzed within the provided IS/MND. Mitigations, where necessary, were implemented to help ensure potential

impacts are reduced to a less than significant level. A detailed analysis, including the monitoring action, monitoring agency, and the period for implementation, may be found in the Initial Study/Mitigated Negative Declaration and corresponding Mitigated Monitoring and Reporting Program (*Attachment #5 – Draft IS/MND*).

20-Day Public Review Period:
On March 18, 2020, initiated by the filing of the Notice of Intent (NOI) to adopt a Mitigated Negative Declaration with the Los Angeles County Clerk, the City released the Draft IS/MND, along with the technical appendices. These materials were made available to the public throughout the 20-day review and comment period which began on March 18, 2020 and ended on April 6, 2020. A copy of the Initial Study/Mitigated Negative Declaration was made available to the public and available at the Planning Counter and on the City's website at:

- https://www.santafesprings.org/cityhall/planning/planning/environmental_documents.asp

A copy of the NOI was also mailed to all responsible and trustee agencies as well as surrounding cities for their review and comment.

Responses to IS/MND Comments:
The public comment period for the Draft IS/MND ended April 6, 2020 and, to date, a total of three (3) comments were received. Comments were received from the following agencies:

1. City of Norwalk
2. Gabrieleno Band of Mission Indians - Kizh Nation
3. The Department of Transportation (DOT)

Details of the comments received and the provided responses may be found in the provided Response to Comments (*Attachment #7 – Response to Comments*).

AUTHORITY OF PLANNING COMMISSION

Tentative Parcel Map
The Planning Commission, after receiving and hearing the results of investigations and reports on the design and improvements of any proposed division of real property for which a tentative map is filed, shall have the authority to impose requirements and conditions upon such division of land and to approve, conditionally approve or disapprove such map and division of land.

Development Plan Approval
The Planning Commission has the authority, subject to the procedures set forth in the City's Zoning Regulations, to grant a Development Plan Approval when it has been found that said approval is consistent with the requirements, intent and purpose of the City's Zoning Regulations. The Commission may grant, conditionally

grant or deny approval of a proposed development plan based on the evidence submitted and upon its own study and knowledge of the circumstances involved, or it may require submission of a revised development plan.

STAFF REMARKS

Based on the findings set forth in the attached Resolution (159-2020), Staff finds that the applicant's request meets the criteria set forth in §155.739 of the City's Zoning Regulations, for the granting of a Development Plan Approval (DPA Case Nos. 947-949). Staff also finds that the applicants request meets the criteria set forth in Section 66412 of the State's Subdivision Map Act, for the granting of a Tentative Parcel Map (TPM No. 82433).

CONDITIONS OF APPROVAL

Conditions of approval for both TPM No. 82433 and DPA Case Nos. 947-949 are attached to Resolution 159-2020 as Exhibit A.

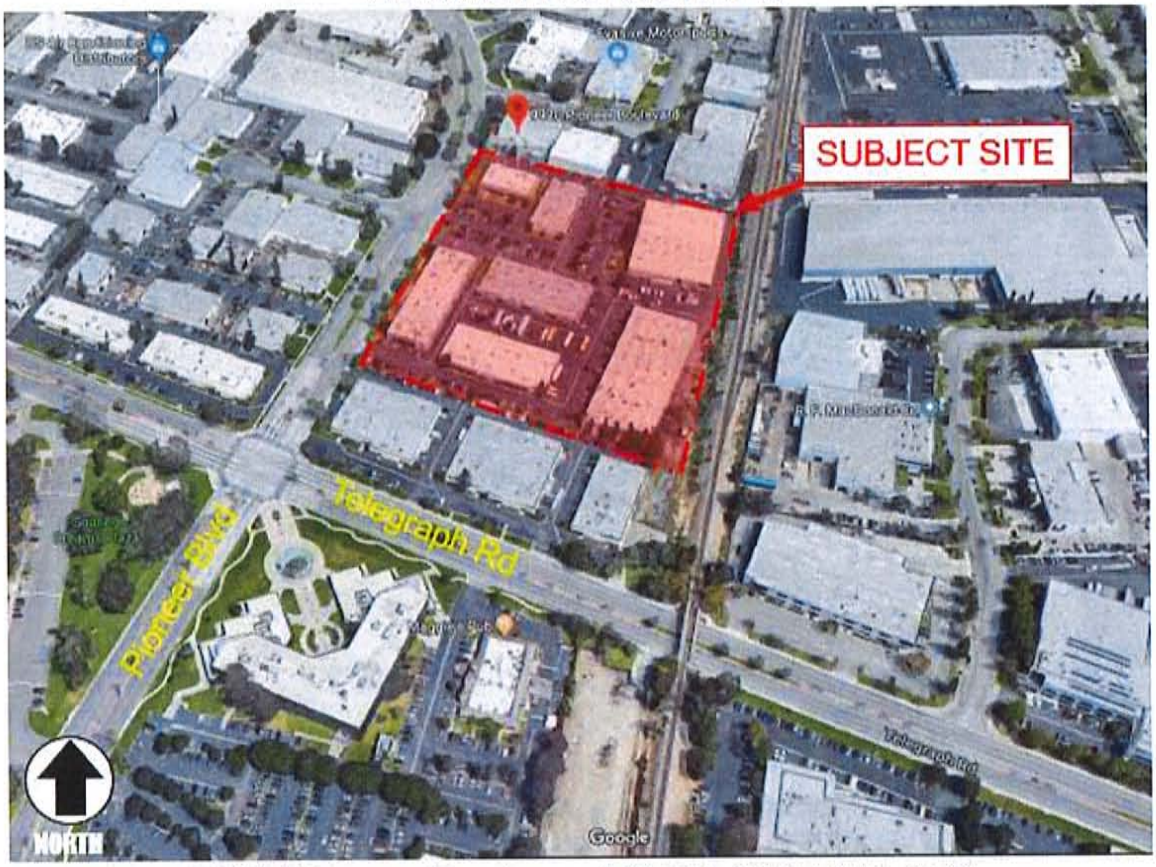
Wayne M. Morrell
Director of Planning

Attachments:

1. Aerial Photograph
2. Public Hearing Notice
3. Radius Map for Public Hearing Notice
4. Notice of Intent *(link to digital copy provided to PC on 03/23/2020)*
5. Draft Initial Study / Mitigated Negative Declaration *(link to digital copy provided to PC on 03/23/2020)*
6. MND appendices *(link to digital copy provided to PC on 03/23/2020)*
7. Response to Comments
8. Resolution No. 159-2020
    a. Exhibit A – Conditions of Approval
9. Full Set of Proposed Plans
10. Tentative Parcel Map No. 82433

Attachment 1 - Aerial Photograph

CITY OF SANTA FE SPRINGS
AERIAL PHOTOGRAPH



9920 Pioneer Boulevard (APN: 8055-010-011)

PROJECT
Development Plan Approval (DPA) Case No. 947-949
Tentative Parcel Map (TPM) No. 82433

APPLICANT
The Brookhollow Group

Report Submitted By: Cuong Nguyen
Planning and Development Department

Date of Report: April 8, 2020

Attachment 2 - Public Hearing Notice

CITY OF SANTA FE SPRINGS
NOTICE OF PUBLIC HEARING
DEVELOPMENT PLAN APPROVAL CASE NOS. 947-949; AND
TENTATIVE PARCEL MAP NO. 82433

NOTICE IS HEREBY GIVEN: that the Planning Commission of the City of Santa Fe Springs will hold a Public Hearing to consider the following:

DEVELOPMENT PLAN APPROVAL CASE NOS. 947-949: DPA Case No. 947 - a request for approval to allow the construction of an approximately 103,950 sq. ft. concrete tilt-up industrial building (Building 1), DPA Case No. 947 - a request for approval to allow the construction of an approximately 28,146 sq. ft. concrete tilt-up industrial building (Building 2); and DPA Case No. 947 - a request for approval to allow the construction of a 31,422 sq. ft. concrete tilt-up industrial building (Building 3) on property located at 9920 Pioneer Boulevard (APN: 8055-010-011), within the M-L (Limited Manufacturing) Zone.

TENTATIVE PARCEL MAP NO. 82433: A request for approval to subdivide the subject ±9.06-acres gross (±8.34-acres net) parcel at 9920 Pioneer Boulevard (APN: 8055-010-011) into two separate parcels measuring 5.08-acres and 3.26-acres, respectively.

APPLICANT/PROJECT SITE: The Brookhollow Group / 9920 Pioneer Boulevard (APN: 8055-010-011), Santa Fe Springs, CA 90670

THE HEARING will be held on **Monday, April 13, 2020 at 6:00 p.m.** Governor Newsome issued Executive Order N-25-20 on March 4, 2020 to temporarily suspend requirements of the Brown Act, which allows the City to hold public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise electronically to all members of the public. Please be advised that until further notice, Planning Commission meetings will be held by teleconference. City Hall, including Council Chambers, is closed to the public.

You may attend the meeting telephonically or electronically using the following means:

Electronically using Zoom
Go to Zoom.us and click on "Join A Meeting" or use the following link:
https://zoom.us/j/558333944?pwd=b0FqbkV2aDZneVRnQ3BjYU12SmJlQT09

Zoom Meeting ID: 558 333 944
Password: 554545

Telephonically
Dial: 888-475-4499
Meeting ID: 558 333 944

CEQA STATUS: Upon review of the proposed project, staff has determined that additional environmental analysis is required to meet the requirements of the California

Attachment 2 (Cont.) - Public Hearing Notice

Environmental Quality Act (CEQA). The applicant has since retained E|P|D Solutions Inc. to prepare the necessary CEQA documents and related technical studies. A Notice of Intent (NOI) to adopt the Initial Study/Mitigated Negative Declaration (IS/MND) was posted with the Los County Clerk's Office to initiate the mandatory 20-day public review period which began on March 19, 2020 and ends on April 6, 2020. Additionally, it should be noted that the project site is not listed on the Hazardous Waste and Substance Site List (Cortese List) as set forth in Government Code Section 65962.5

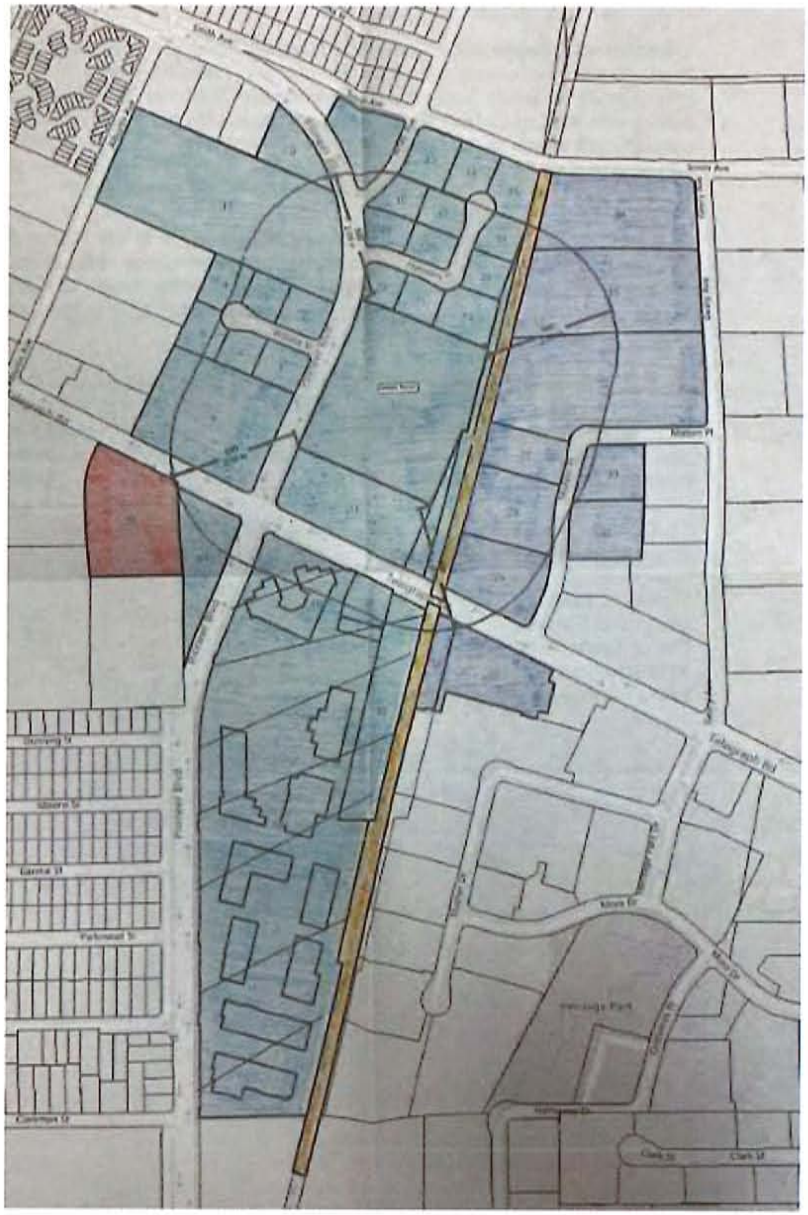
ALL INTERESTED PERSONS are invited to participate in the Planning Commission hearing and express their opinion on the item listed above. Please note that if you challenge the afore-mentioned item in court, you may be limited to raising only those issues you or someone else raised at the Public Hearing, or in written correspondence received prior to the Public Hearing.

PUBLIC COMMENTS may be submitted in writing by sending them to the Planning Program Assistant at teresacavallo@santafesprings.org. To ensure that they are received for the meeting, please submit your written comments prior to 4:00 p.m. on the day of the Planning Commission meeting. You may also contact the Planning Department at (562) 868-0511 ext. 7550.

FURTHER INFORMATION on this item may be obtained by e-mail: cuongnguyen@santafesprings.org.

Wayne M. Morrell
Director of Planning
City of Santa Fe Springs
11710 Telegraph Road
Santa Fe Springs, CA 90670

Attachment 3 - Radius Map for Public Hearing Notice



Attachment 4 – Notice of Intent

CITY OF SANTA FE SPRINGS
11710 Telegraph Road · CA · 90670-3679 · (562) 868-0511 · Fax (562) 868-7112 · www.santafesprings.org
"A great place to live, work, and play"

NOTICE OF INTENT TO ADOPT A NEGATIVE DECLARATION

DATE: March 16, 2020

TO: Responsible Agencies, Interested Parties, and Organizations

SUBJECT: NOTICE OF INTENT TO ADOPT A MITIGATED NEGATIVE DECLARATION FOR PIONEER BOULEVARD DEVELOPMENT PROJECT AT 9920 PIONEER BOULEVARD

The City of Santa Fe Springs (City) is the California Environmental Quality Act (CEQA) Lead Agency for the proposed Pioneer Boulevard Development Project (proposed project) located at 9920 Pioneer Boulevard. The City has directed the preparation of an Initial Study (IS) in compliance with CEQA. The purpose of the IS is to provide decision makers, public agencies, and the general public with an objective and informative document that facilitates a basic understanding of the proposed project and fully discloses the potential environmental effects associated with the proposed project, including direct, indirect, and cumulative environmental effects. Based on the studies performed and information contained in the IS, the City is proposing to adopt a Mitigated Negative Declaration (MND). The IS/MND will allow the project proponent to obtain permits, agreements, and approvals from necessary agencies to implement the project.

Project Location: The project site is located at 9920 Pioneer Boulevard, Santa Fe Springs, California 90670. The project site consists of one parcel with the Assessor's Parcel Number (APN): 8005-010-011. The project site is generally bound by Pioneer Boulevard to the west, Telegraph Road to the south, Hamden Place to the north, and the Southern Pacific railroad to the east.

Project Description: Currently, the project site is developed with seven industrial buildings that total approximately 158,000 square feet, which would be demolished as part of the proposed project. The project would redevelop the 9.06-acre project site with three concrete tilt-up industrial buildings totaling 163,518 gross square feet. Each proposed building would include a loading dock area, mezzanine office space, and automobile parking. The project requests the approval of the following entitlements: 1) a Tentative Parcel Map (TPM 82433) for condominium purposes; and 2) three Development Plan Approvals (DPAs 947-949) for consideration of the architectural design, conceptual landscaping, and overall compliance with the City's Zoning Regulations. The project is consistent the City's General Plan land use designation of Business Park and Limited Manufacturing Administration and Research Zone District (ML) zoning designation.

Potentially Significant Environmental Impacts: With implementation of mitigation measures, the IS identified there would be no potentially significant impacts resulting from project implementation.

Public Review Period March 18, 2020 through April 6, 2020: In compliance with CEQA, the City has established a 20-day public review period beginning March 18, 2020 to solicit comments and input on the Draft IS/MND. To ensure that all environmental issues are fully identified and adequately addressed, written comments are invited from all interested parties. Written comments

Juanita Trujillo, Mayor • William K. Rounds, Mayor Pro Tem
City Council
John M. Mora • Annette Rodriguez • Joe Angel Zamora
City Manager
Raymond R. Cruz

Attachment 4 (Cont.) – Notice of Intent

regarding the scope and content of information in the Draft IS/MND may be submitted electronically to Cuong Nguyen at cuongnguyen@santafesprings.org or mailed to:

City of Santa Fe Springs
Planning Department
Attn: Cuong Nguyen, Senior Planner
11710 E. Telegraph Road
Santa Fe Springs, Calif. 90670

Comments should be submitted no later than 5:00 pm on **Monday April 6, 2020.**

The IS/MND is available for public review at the following web address:
https://www.santafesprings.org/cityhall/planning/planning/environmental_documents.asp

Public Hearing: The Santa Fe Springs Planning Commission will consider the proposed project and recommendation to adopt a Mitigated Negative Declaration at a public hearing tentatively scheduled on **Monday, April 13, 2020** at 6 p.m. at City Hall in the Council Chambers at 11710 E. Telegraph Road, Santa Fe Springs.

Attachment 5 - Draft Initial Study / Mitigated Negative Declaration (IS/MND)

PIONEER BOULEVARD DEVELOPMENT PROJECT

INITIAL STUDY/ MITIGATED NEGATIVE DECLARATION

Lead Agency:
City of Santa Fe Springs
11710 East Telegraph Road
Santa Fe Springs, CA 90670

Project Applicant:
The Brookhollow Group
151 Kalmus Drive, Suite F-1
Costa Mesa, CA 92626

ENVIRONMENT | PLANNING | DEVELOPMENT SOLUTIONS, INC.

2 Park Plaza, Suite 1120
Irvine, California 92614

March 2020

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Table of Contents

1 INTRODUCTION 1
1.1 PURPOSE OF THE INITIAL STUDY 1
1.2 DOCUMENT ORGANIZATION 2

2 PROJECT SETTING 3
2.1 PROJECT LOCATION 3
2.2 EXISTING LAND USES 3
2.3 EXISTING GENERAL PLAN AND ZONING DESIGNATIONS 4
2.4 SURROUNDING LAND USE, GENERAL PLAN AND ZONING DESIGNATIONS 4

3 PROJECT DESCRIPTION 11
3.1 PROJECT OVERVIEW 11
3.2 PROJECT FEATURES 11
3.3 CONSTRUCTION 31

4 ENVIRONMENTAL CHECKLIST 32
4.1 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED 32
4.2 DETERMINATION 33
4.3 ENVIRONMENTAL CHECKLIST QUESTIONS 35
1. AESTHETICS 35
2. AGRICULTURE AND FORESTRY RESOURCES 38
3. AIR QUALITY 41
4. BIOLOGICAL RESOURCES 49
5. CULTURAL RESOURCES 53
6. ENERGY 56
7. GEOLOGY AND SOILS 61
8. GREENHOUSE GAS EMISSIONS 67
9. HAZARDS AND HAZARDOUS MATERIALS 71
10. HYDROLOGY AND WATER QUALITY 81
11. LAND USE AND PLANNING 87
12. MINERAL RESOURCES 89
13. NOISE 90
14. POPULATION AND HOUSING 96
15. PUBLIC SERVICES 98
16. RECREATION 101
17. TRANSPORTATION 102
18. TRIBAL CULTURAL RESOURCES 109
19. UTILITIES AND SERVICE SYSTEMS 113
20. WILDFIRES 117
21. MANDATORY FINDINGS OF SIGNIFICANCE 119

5 MITIGATION MONITORING AND REPORTING PROGRAM 121
5.1 INTRODUCTION 121
5.2 MITIGATION MONITORING AND REPORTING PROGRAM 121

6 DOCUMENT PREPARERS AND CONTRIBUTORS 127

Figures

Figure 1: Regional Location 5
Figure 2: Local Vicinity 7
Figure 3: Aerial View 9
Figure 4: Conceptual Site Plan 13
Figure 5: Tentative Parcel Map for Condominium Purposes 15
Figure 6A-C: Building Elevations 17-21
Figure 7: Conceptual Landscape Plan 25
Figure 8: Preliminary Grading Plan 27
Figure 9: Preliminary Wet Utility Plan 29
Figure 10: Noise Measurement Locations 88

Tables

Table 1: Existing Uses Tabulation 3
Table 2: Building Breakdown 11
Table 3: Proposed Parking Breakdown 12
Table 4: Proposed Landscaping Breakdown 23
Table 5: Construction Schedule 31
Table AQ-1: SCAQMD Regional Daily Emissions Thresholds 42
Table AQ-2: Overall Construction Emissions Summary (Without Mitigation) 43
Table AQ-3: Summary of Operational Emissions 44
Table AQ-4: Localized Significance Summary of Construction 45
Table AQ-5: Localized Significance Summary of Operations 45
Table E-1: Estimated Construction Electricity Usage 56
Table E-2: Estimated Construction Fuel Consumption 56
Table E-3: Estimated Construction Worker Fuel Consumption 57
Table E-4: Estimated Construction Vendor Fuel Consumption (Medium High Duty Trucks) 57
Table E-5: Estimated Construction Hauling Fuel Consumption (Heavy High Duty Trucks) 57
Table E-6: Estimated Annual Operational Automobile Fuel Consumption 58
Table E-7: Estimated Annual Natural Gas and Electricity Consumption 58
Table GHG-1: Amortized Annual Construction Emissions 67
Table GHG-2: Existing GHG Emissions 68
Table GHG-3: Project GHG Emissions 68
Table N-1: Permitted Noise Levels 87
Table N-2: Measured Noise Levels (dBA) and Meter Locations 88
Table N-3: Construction Activity Noise Level 89
Table N-4: PM Peak Hour Area Traffic Background and Project 90
Table N-5: Caltrans Vibrations Damage Potential Threshold Criteria 90
Table N-6: Caltrans Vibrations Annoyance Potential Criteria 90
Table N-7: Vibration Source Levels for Construction Equipment at 25 feet 91
Table T-1: Project PCE Trip Generation (Comparison) 100
Table T-2: Cumualative Projects Trip Generation 101
Table T-3: Baseline and Plus Project Plus Peak Hour Level of Service 101
Table 5-1: Mitigation Montioring and Reporting Program 106

Appendix

A Air Quality Impact Analysis
B Mobile Source Health Risk Assessment
C Energy Tables
D Preliminary Geotechnical Evaluation and Design Recommendations
E Greenhouse Gas Analysis
F Noise Impact Analysis
G Phase I Environmnetal Site Assessment
H Phase II Environmental Site Assessment
I Petroleum Engineer Technical Memorandum
J Trip Generation and Level of Service Analysis

1 INTRODUCTION

1.1 PURPOSE OF THE INITIAL STUDY

This Initial Study has been prepared in accordance with the following:

- California Environmental Quality Act (CEQA) of 1970 (Public Resources Code Sections 21000 et seq.); and
- California Code of Regulations, Title 14, Division 6, Chapter 3 (State CEQA Guidelines, Sections 15000 et seq.).

Pursuant to CEQA, this Initial Study has been prepared to analyze the potential for significant impacts on the environment resulting from implementation of the proposed project. As required by State CEQA Guidelines Section 15063, this Initial Study is a preliminary analysis prepared by the Lead Agency, the City of Santa Fe Springs, in consultation with other jurisdictional agencies, to determine if a Mitigated Negative Declaration (MND) or an Environmental Impact Report (EIR) is required for the project.

This Initial Study informs City of Santa Fe Springs decision-makers, affected agencies, and the public of potentially significant environmental impacts associated with the implementation of the project. A "significant effect" or "significant impact" on the environment means "*a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project*" (Guidelines §15382). As such, the MND's intent is to adhere to the following CEQA principles:

- Provide meaningful early evaluation of site planning constraints, service and infrastructure requirements, and other local and regional environmental considerations. (Pub. Res. Code §21003.1)
- Encourage the applicant to incorporate environmental considerations into project conceptualization, design, and planning at the earliest feasible time. (State CEQA Guidelines §15004[b][3])
- Specify mitigation measures for reasonably foreseeable significant environmental effects and commit Moreno Valley and the applicant to future measures containing performance standards to ensure their adequacy when detailed development plans and applications are submitted. (State CEQA Guidelines §15126.4)

Existing Plans, Programs, or Policies (PPPs)

Throughout the impact analysis in this Initial Study, reference is made to requirements that are applied to all development on the basis of federal, state, or local law, and Existing Plans, Programs, or Policies currently in place which effectively reduce environmental impacts. Existing Plans, Programs, or Policies are collectively identified in this document as PPPs. Where applicable, PPPs are listed to show their effect in reducing potential environmental impacts. Where the application of these measures does not reduce an impact to below a level of significance, a project-specific mitigation measure is introduced.

1.2 DOCUMENT ORGANIZATION

This IS/MND includes the flowing sections:

Section 1.0 Introduction

Provides information about CEQA and its requirements for environmental review and explains that an Initial Study/MND was prepared by the City of Santa Fe Springs to evaluate the proposed project's potential to impact the physical environment.

Section 2.0 Project Setting

Provides information about the proposed project's location.

Section 3.0 Project Description

Includes a description of the proposed project's physical features and construction and operational characteristics.

Section 4.0 Discretionary Approvals

Includes a list of the discretionary approvals that would be required by the proposed project.

Section 5.0 Environmental Checklist

Includes the Environmental Checklist and evaluates the proposed project's potential to result in significant adverse effects to the physical environment.

Section 6.0 Document Preparers and Contributors

Includes a list of the persons that prepared this IS/MND.

2 PROJECT SETTING

2.1 PROJECT LOCATION

The project site is located in southeastern Los Angeles County within the City of Santa Fe Springs. The site is within the United States Geological Survey (USGS) Whittier 7.5-Minute Series Quadrangle and can be identified within Section 31, Township 2 South, Range 11 West, San Bernardino Base and Meridian. The City of Santa Fe Springs is approximately 12 miles southeast of downtown Los Angeles and 18 miles northwest of downtown Santa Ana.

Regional access to the project site is available through Interstate 605 (I-605) to the west via Telegraph Road and Interstate 5 (I-5) via Pioneer Boulevard or Florence Avenue. The regional location of the project site is shown in Figure 1, *Regional Location*.

The project site is located at 9920 Pioneer Boulevard, Santa Fe Springs, California 90670. The project site consists of one parcel with the Assessor's Parcel Number (APN): 8005-010-011. The project site is generally bound by Pioneer Boulevard to the west, Telegraph Road to the south, Hamden Place to the north, and the Southern Pacific railroad to the east. The project site and the surrounding area is shown in Figure 2, *Local Vicinity*.

2.2 EXISTING LAND USES

The 9.06-acre project site is currently developed as a business park referred to as the Santa Fe Springs Commerce Center and has existing tenants. The site contains seven structures (totaling approximately 158,000 square feet) with associated surface parking lots adjacent to each building. Existing tenants conduct businesses that include: laboratory, office, and various limited industrial and services-type uses. Table 1, *Existing Uses Tabulation*, details the seven structures onsite with their existing use and building size.

Table 1: Existing Uses Tabulation

#	Address	Building Size (square feet)	Land Use
1	10016 Pioneer Blvd	27,894	Office/Restaurant/Warehouse
2	10020 Pioneer Blvd	19,000	Office/Light Manufacturing/Warehouse
3	10002 Pioneer Blvd	20,200	Office/Warehouse
4	10010 Pioneer Blvd	36,421	Warehouse
5	9930 Pioneer Blvd	32,360	Warehouse
6	9926 Pioneer Blvd	13,730	Office/Warehouse
7	9930 Pioneer Blvd	8,064	Office
Total Warehouse		148,745	
Total Office		8,064	
Total Restaurant		860	
TOTAL		157,669	

Site landscaping currently includes trees, turf grass, and other ornamental vegetation. The topography of the site is generally flat. East of the project site is an approximately 2-foot high block wall with trees, weeds, and debris in between the project site and the adjacent railroad tracks. Existing conditions of the project site and adjacent uses is shown in Figure 3, *Aerial Photograph*.

2.3 EXISTING GENERAL PLAN AND ZONING DESIGNATIONS

The Santa Fe Springs General Plan designates the project site as Business Park. The General Plan's Land Use Element allows for the following uses under the Business Park land use designation: offices of all types; industrial uses restricted to limited manufacturing, research and light assembly operations; restaurants and other commercial and service-type uses; oil production, storage or refining should be avoided or should be an intermediate land use.

The project site is zoned "ML", or Limited Manufacturing Administration and Research Zone District, defined within Section 155.180 of the Zoning Code. The minimum lot size of land zoned ML is 25,000 square feet. As described in the zoning code, the following uses are intended for this zone: administrative offices of business and industrial concerns, scientific research offices and laboratories, restricted manufacturing and appurtenant uses compatible to the development of an industrial park, and to provide for special needs housing in the form of emergency shelters.

2.4 SURROUNDING LAND USE, GENERAL PLAN AND ZONING DESIGNATIONS

The project site is located within a developed, urbanized area within the City of Santa Fe Springs as described below:

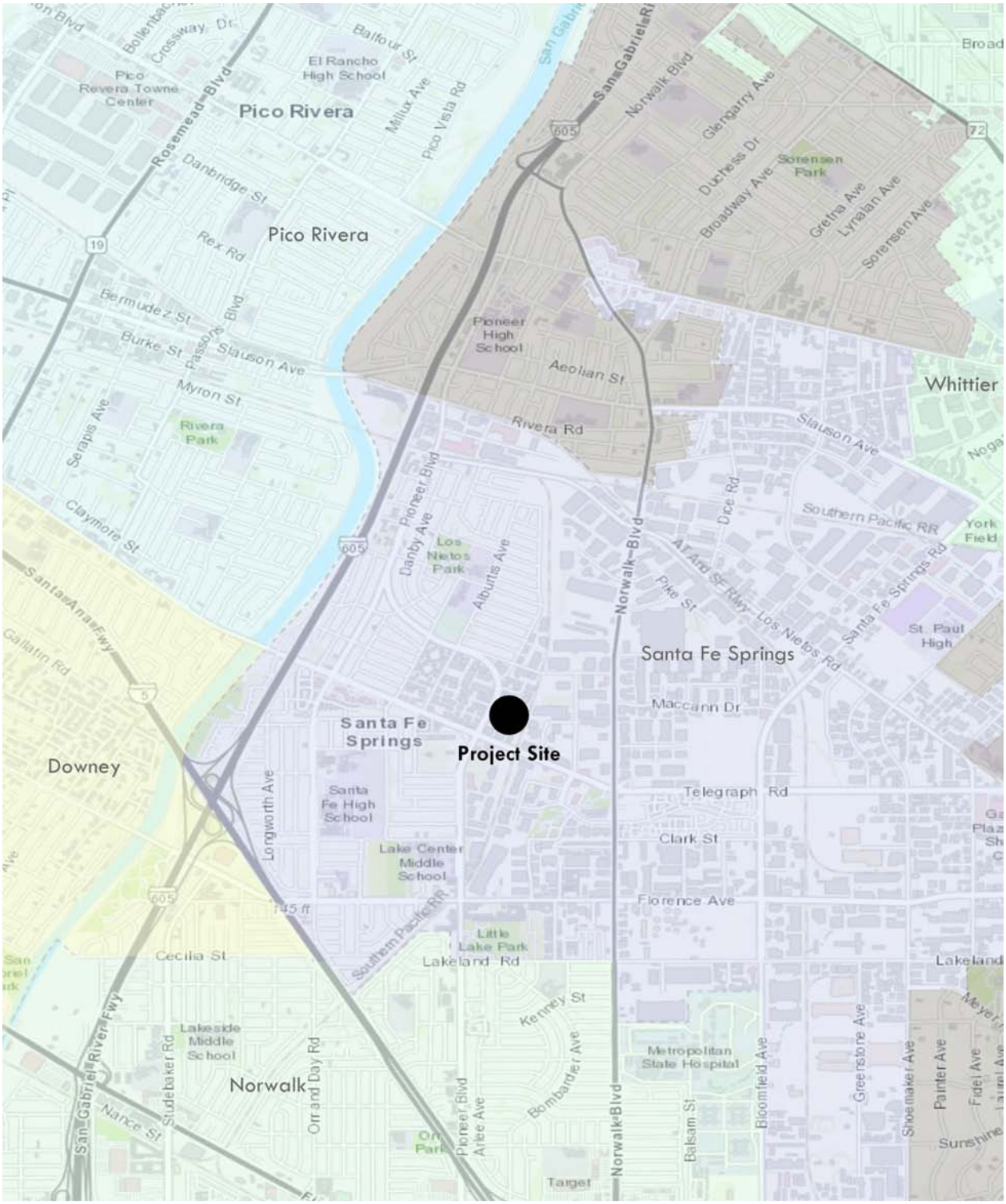
North: Immediately north of the project site are business park uses, designated as Business Park in the General Plan and zoned Limited Manufacturing (ML). A single-family residential neighborhood is approximately 640 feet to the northwest of the project site, designated as Single Family Residential in the General Plan and zoned Single Family (R-1).

West: Adjacent to the project site are business park uses, designated as Business Park in the General Plan and zoned Limited Manufacturing (ML). Beyond the business park (approximately 0.20 miles) is a multi-family development designated as Multiple Family Residential and zoned Multiple Family – Planned Development Overlay Zone (R-3-PD).

South: Immediately south of the project site are similar land use and zoning designations as the project site: Business Park, Railroad Right-of-Way land use designations and Limited Manufacturing – Design Overlay Zone (ML-D). Across Telegraph Road, zoning designations include Limited Manufacturing – Planning Development Overlay Zone (ML-PD) and Heavy Manufacturing (M-2). The City of Santa Fe Springs Civic Center is located approximately 345 feet southwest of the project site and is designated as Public Facilities by the General Plan and has a zoning designation of Community Commercial (C-4), Public Facilities (PF), and Limited Manufacturing (ML) with a Design Overlay.

East: The Southern Pacific railroad tracks are adjacent to the site, which are followed by industrial uses. The General Plan designation of the area is Industrial, and the zoning designation is Heavy Manufacturing (M-2).

Regional Location

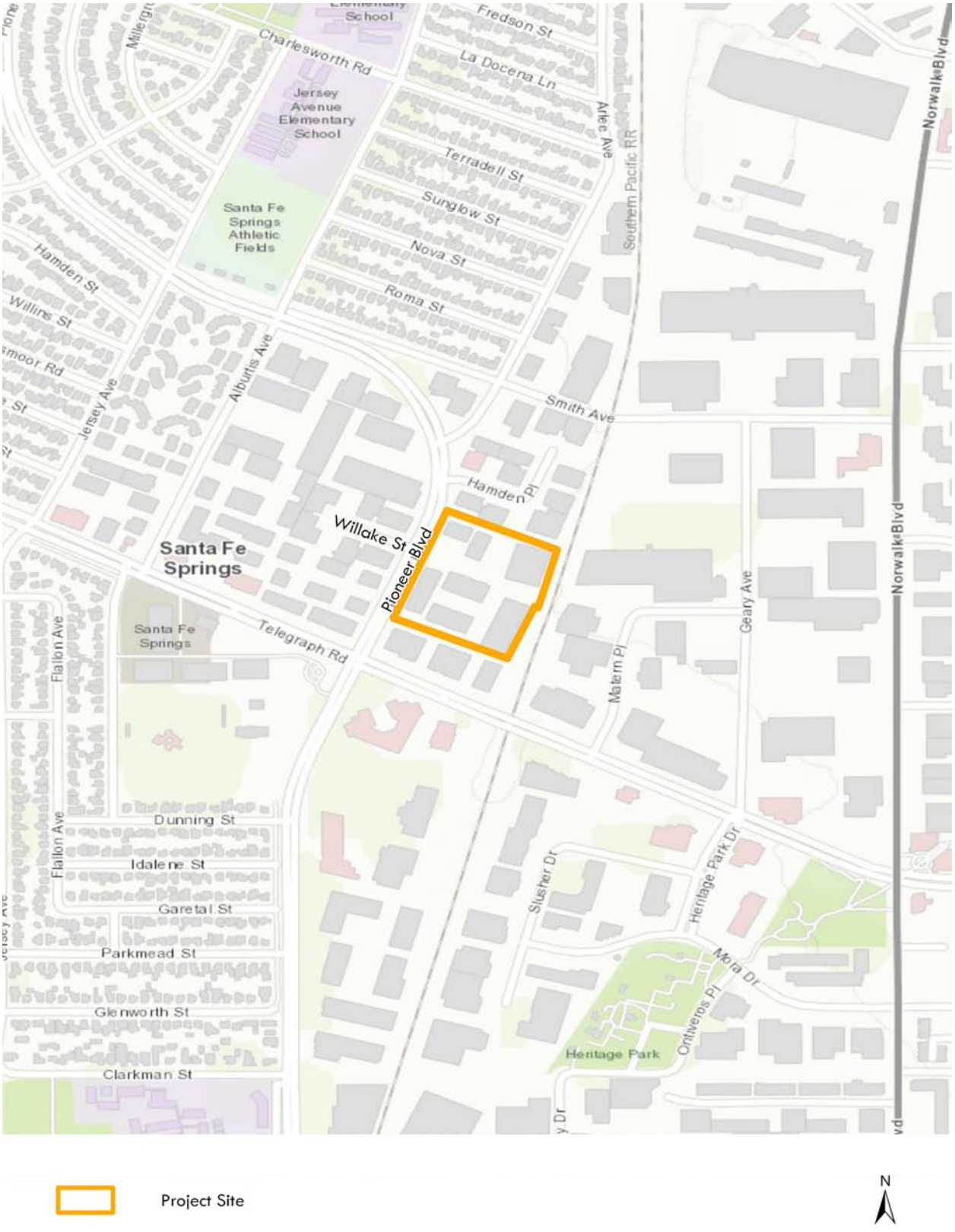


Pioneer Boulevard Development
IS/MND
City of Santa Fe Springs

Figure 1

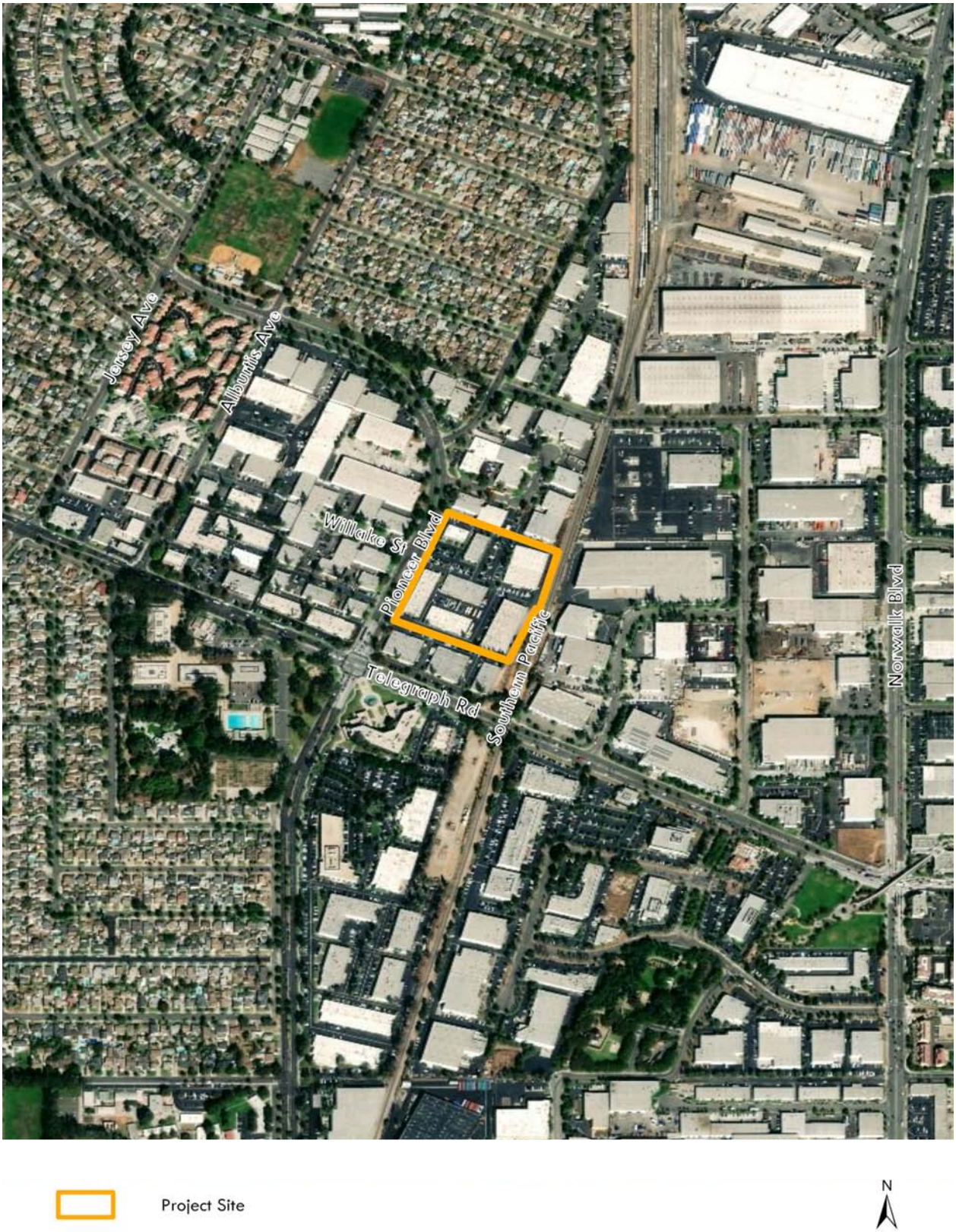
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Local Vicinity



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Aerial View



Pioneer Boulevard Development
IS/MND
City of Santa Fe Springs

Figure 3

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3 PROJECT DESCRIPTION

3.1 PROJECT OVERVIEW

The project would redevelop the 9.06-acre project site with three concrete tilt-up industrial buildings. Currently, the project site is developed with seven industrial buildings that total approximately 158,000 square feet, which would be demolished as part of the proposed project. Each proposed building would include a loading dock area, mezzanine office space, and automobile parking. The project requests the approval of the following entitlements: 1) a Tentative Parcel Map (TPM 82433) for condominium purposes; and 2) three Development Plan Approvals (DPAs 947-949) for consideration of the architectural design, conceptual landscaping, and overall compliance with the City's Zoning Regulations. Figure 4, *Conceptual Site Plan* and Figure 5, *Tentative Parcel Map for Condominium Purposes* illustrates the project as proposed.

3.2 PROJECT FEATURES

Development Summary
The proposed project would construct three painted concrete tilt-up industrial buildings totaling 163,518 gross square feet. The project includes 9,000 square feet of office space, mezzanine space, parking, and surrounded by landscaping. Table 2 details each building breakdown.

Table 2: Building Breakdown

Building Components	Building 1	Building 2	Building 3	Project Totals
Warehouse	95,950 sf	23,146 sf	26,422 sf	149,518 sf
First Floor Office	4,000 sf	2,500 sf	2,500 sf	9,000 sf
Mezzanine Office	4,000 sf	2,500 sf	2,500 sf	9,000 sf
Total Building Area (Gross)	103,950 sf	28,146 sf	31,422 sf	163,518 sf
Building Footprint	99,950 sf	25,646 sf	28,922 sf	154,518 sf

Each building would be painted with a three-tone paint scheme of shades of blue, white, and gray. Building 1's maximum height would be at 40 feet 6 inches and Buildings 2 and 3 would both have a maximum height of 37 feet 6 inches. Future tenant signage, which will be reviewed and approved separately, would be featured on each side of Building 1 at its highest point and only on the south and west sides of Buildings 2 and 3. Office windows would be made of blue reflective glass with aluminum storefront canopies providing shade to the office entrance. The warehouse portions of each building would also have blue reflective glass clerestory windows. Figures 6A-6C, *Building 1-3 Elevations* illustrate building height and materials.

Building 1
Building 1 would be located on the south side of the project site. The 103,950-square-foot building would include 4,000 square feet of office space and 4,000 square feet of mezzanine at the southwest corner of the building. A loading dock and trash collection area would be located on the south side of the building. Within the loading area would be space for trailer parking, two ramps into the facility, and screened by a 14-foot concrete high wall with a 10-foot high tube steel sliding gate.

Building 2

Building 2 would be 28,146 square feet in size, with 2,500 square feet of primary office space and 2,500 square feet of mezzanine. The building's primary entrance, as well as access to the office space, would be located at the southwest corner of the building. A loading area would be on the northeast corner of the building and will be provided with a 42-inch high concrete guardrails to the north. The building's trash area would be to the north of the building, adjacent to automobile parking.

Building 3
Building 3 would be located on the northeast corner of the project site. The 31,422-square-foot building would also have 2,500 square feet of office space and 2,500 square feet of mezzanine on the southwest corner of the building. A loading dock would be located on the northwest corner of the building, mirroring the loading area for Building 2 and will be provided with a 42-inch concrete guardrail. A trash collection area would be located north of the building.

Parking and Circulation
The proposed project includes accessible, standard, compact and bicycle stalls that would be located around each building and along an onsite roadway. The project plans to provide 14 more parking spaces than what is required under Chapter 155.481 of the City's Municipal Code. Table3, details the proposed parking.

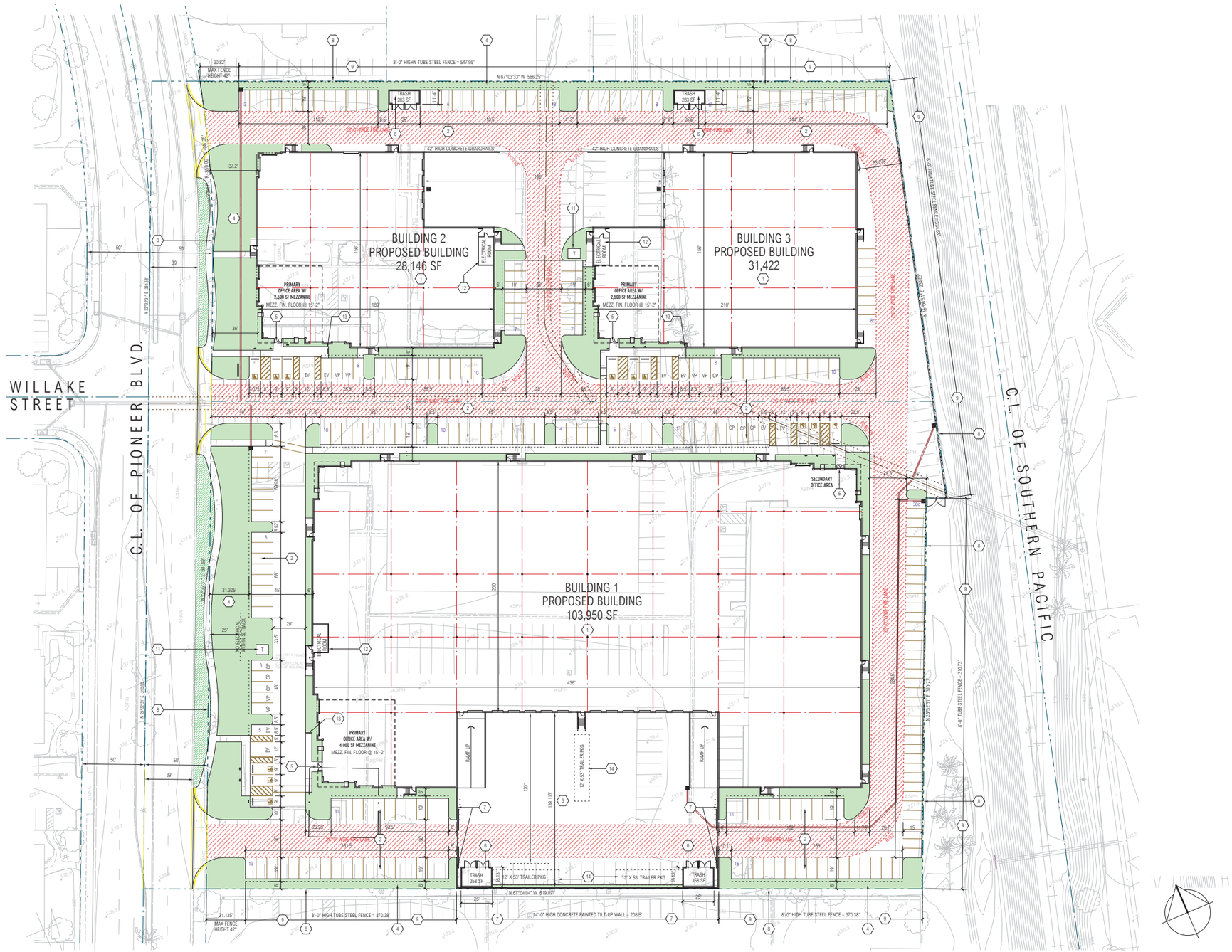
Table 3: Proposed Parking Breakdown

	Building 1	Buildings 2 & 3	Totals
Parking Required(1)	**151**	**106**	**257**
Parking Provided			
Accessible Stalls	6	6	12
Standard Stalls	118	95	213
Compact Stalls	38	8	46
TOTAL	**162**	**109**	**271**
Bicycle Stalls	9	6	15

Notes:
(1) Required off-street parking for industrial uses between 100,001 and 200,000 square feet is one parking space per 1,000 square feet [City of Santa Fe Springs Municipal Code Chapter 155.481(D)]

Access to the project site would be available via three driveways from Pioneer Boulevard: one on the north end, center, and southern portions of the site. The center access point would be the largest entrance onto the site, aligning with Willake Street, an east-west roadway, directly across Pioneer Boulevard. Internal circulation would be provided around Building 1, between Building 2 and 3, as well as along the eastern edge of Building 3.

Conceptual Site Plan

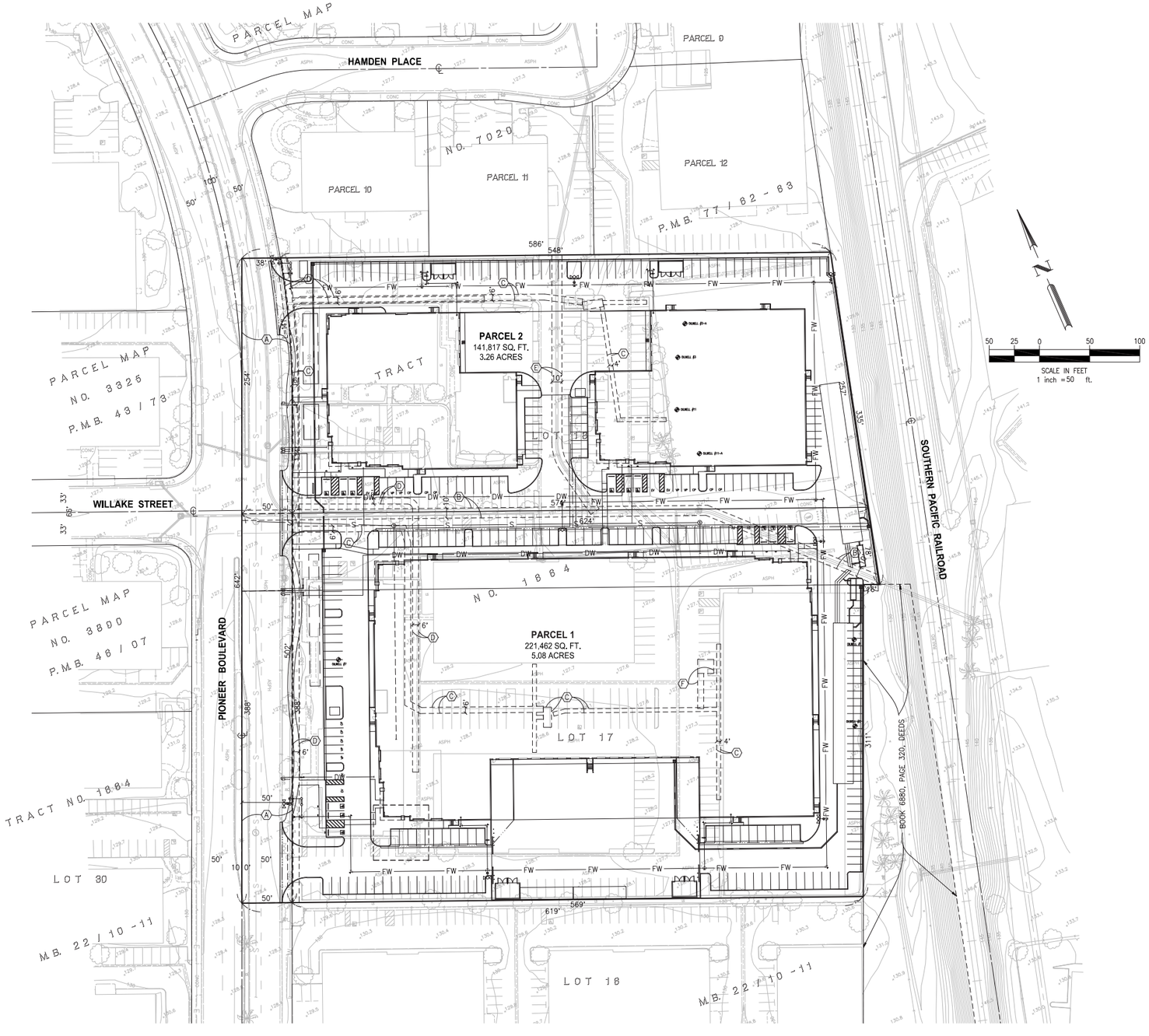


Pioneer Boulevard Development
IS/MND
City of Santa Fe Springs

Figure 4

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Tentative Parcel Map for Condominium Purposes



TENTATIVE PARCEL MAP NO. 82433

FOR CONDOMINIUM PURPOSES

IN THE CITY OF SANTA FE SPRINGS, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

WALDEN & ASSOCIATES
JEFFREY A. WALDEN, P.L.S. 7914
FEBRUARY 2019

LEGAL DESCRIPTION:

PARCEL 1:

LOT 18 OF TRACT NO. 1664, IN THE CITY OF SANTA FE SPRINGS, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 22, PAGES 10 AND 11 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY. EXCEPT THEREFROM THAT PORTION THEREOF WITHIN THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE SOUTHEASTERLY CORNER OF SAID LOT 18; THENCE NORTH 67°03' 43" WEST 30.28 FEET ALONG THE SOUTHERLY LINE OF SAID LOT 18, TO A POINT IN A LINE THAT IS PARALLEL WITH AND DISTANT NORTHWESTERLY 30.00 FEET AT RIGHT ANGLES, FROM THE EASTERLY LINES OF SAID LOTS 18 AND 20; THENCE NORTH 15° 06' 10" EAST 535.69 FEET ALONG SAID PARALLEL LINE, TO A POINT; THENCE NORTH 21°06' 31" EAST 286.75 FEET TO A POINT IN THE EASTERLY LINE OF SAID LOT 20; THENCE SOUTH 15°06' 10" WEST 825.00 FEET ALONG THE EASTERLY LINE OF SAID LOTS 18 AND 20 TO THE POINT OF BEGINNING.

ALSO EXCEPT THAT PORTION OF SAID LAND WHICH LIES BELOW A DEPTH OF 500 FEET MEASURED VERTICALLY FROM THE SURFACE THEREOF, WITHOUT THE RIGHT TO USE THAT PORTION OF SAID LAND LYING ABOVE SAID EXCEPTED PORTION, AS EXCEPTED BY SANTA GERTRUDES LAND COMPANY, IN THE DEED RECORDED MARCH 14, 1972, AS INSTRUMENT NO. 442, OF OFFICIAL RECORDS.

PARCEL 2:
THAT PORTION OF LOT 17 OF TRACT NO. 1664, IN THE CITY OF SANTA FE SPRINGS, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 22, PAGES 10 AND 11 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWESTERLY CORNER OF SAID LOT 17; THENCE EASTERLY ALONG THE NORTHERLY LINE OF SAID LOT, 618.99 FEET TO THE NORTHWESTERLY CORNER OF THE LAND DESCRIBED IN THE DEED TO FRANK PIPPINGER AND WIFE, BY DEED RECORDED JULY 12, 1919, IN BOOK 6880, PAGE 320, OF DEEDS; THENCE SOUTHERLY ALONG THE WESTERLY LINE OF SAID LAST MENTIONED LAND, 310.72 FEET TO THE SOUTHERLY LINE OF SAID LOT 17; THENCE WESTERLY ALONG SAID SOUTHERLY LINE 618.99 FEET TO THE SOUTHWESTERLY CORNER OF SAID LOT; THENCE NORTHERLY ALONG THE WESTERLY LINE OF SAID LOT, 310.75 FEET TO THE POINT OF BEGINNING.

EXCEPT THAT PORTION OF SAID LAND WHICH LIES BELOW A DEPTH OF 500 FEET MEASURED VERTICALLY FROM THE SURFACE THEREOF, WITHOUT THE RIGHT TO USE THAT PORTION OF SAID LAND LYING ABOVE SAID EXCEPTED PORTION, AS EXCEPTED BY SANTA GERTRUDES LAND COMPANY, IN THE DEED RECORDED MARCH 14, 1972, AS INSTRUMENT NO. 442, OF OFFICIAL RECORDS.

EASEMENT LEGEND:

(A) INDICATES AN EASEMENT IN FAVOR OF THE CITY OF SANTA FE SPRINGS, FOR STREET, PUBLIC UTILITY AND MUNICIPAL PURPOSES, RECORDED SEPTEMBER 25, 1972 AS INSTRUMENT NO. 2530, IN BOOK D-5613, PAGE 322 OF OFFICIAL RECORDS.

(B) INDICATES AN EASEMENT IN FAVOR OF THE CITY OF SANTA FE SPRINGS, FOR DRAINAGE PURPOSES, RECORDED JANUARY 15, 1973 AS INSTRUMENT NO. 3190 OF OFFICIAL RECORDS.

(C) INDICATES AN EASEMENT IN FAVOR OF SOUTHERN CALIFORNIA EDISON COMPANY, FOR UTILITY PURPOSES, RECORDED DECEMBER 26, 1973 AS INSTRUMENT NO. 856 OF OFFICIAL RECORDS.

(D) INDICATES AN EASEMENT IN FAVOR OF GENERAL TELEPHONE COMPANY OF CALIFORNIA, FOR PUBLIC UTILITY PURPOSES, RECORDED MAY 20, 1974 AS INSTRUMENT NO. 3145, OF OFFICIAL RECORDS.

(E) INDICATES AN EASEMENT IN FAVOR OF BOONE-SOUTHERN, A JOINT VENTURE, FOR STORM DRAIN PURPOSES, RECORDED FEBRUARY 10, 1977 AS INSTRUMENT NO. 77-145018 OF OFFICIAL RECORDS.

(F) INDICATES AN EASEMENT IN FAVOR OF SOUTHERN CALIFORNIA EDISON COMPANY, FOR PUBLIC UTILITY PURPOSES, RECORDED MARCH 28, 1991 AS INSTRUMENT NO. 91-440619, OF OFFICIAL RECORDS.

EXISTING SITE INFORMATION:

ASSESSOR PARCEL NUMBER:	8005-010-011
SITE ADDRESS:	9920, 9926, 9930, 10002, 10010, 10016 & 10020 PIONEER BLVD.
GENERAL PLAN LAND USE:	BUSINESS PARK
ZONE:	ML – MANUFACTURING LIMITED
AREA:	9.06 ACRES – 394,849 SQ. FT. GROSS
	8.34 ACRES – 363,279 SQ. FT. NET

PROPOSED SITE INFORMATION:

ALL EXISTING DWELLINGS, BUILDINGS OR OTHER STRUCTURES ON THE PROPERTY WILL BE REMOVED.

NUMBER OF INDUSTRIAL PARCELS: 2 NUMBERED

PROPOSED PARCELS AREA:

PARCEL 1:	5.53 ACRES – 240,854 SQ. FT. GROSS
	5.08 ACRES – 221,462 SQ. FT. NET
PARCEL 2:	3.53 ACRES – 153,995 SQ. FT. GROSS
	3.26 ACRES – 141,817 SQ. FT. NET

EASEMENTS FOR SHARED INGRESS/EGRESS, ACCESS, PARKING, PARCEL DRAINAGE, EMERGENCY VEHICLE ACCESS, PRIVATE UTILITIES, LANDSCAPING AND MAINTENANCE RESPONSIBILITIES FOR THESE AND OTHER INCIDENTAL PURPOSES ARE TO BE ADDRESSED UNDER CC&R'S TO BE RECORDED CONCURRENTLY WITH THE PARCEL MAP.

OWNER:
THE BROOKHOLLOW GROUP
151 KALMUS DR., SUITE F-1
COSTA MESA, CA 92626
MR. ROBERT KNAPP
714-850-3906

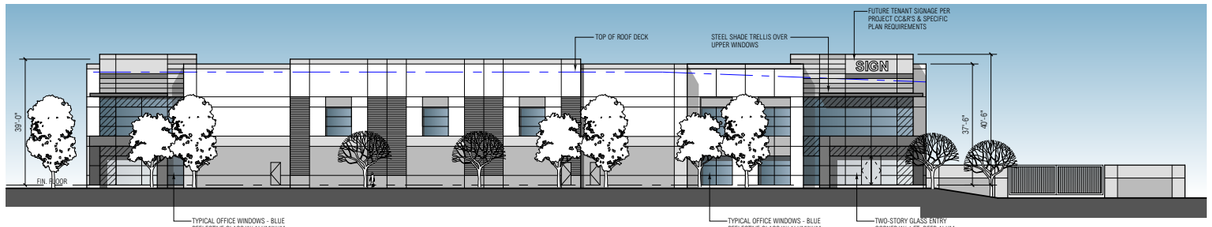
APPLICANT:
RGA, OFFICE OF ARCHITECTURAL DESIGN
15231 ALTON PARKWAY, SUITE 100
IRVINE, CA 92618
MR. MIKE GILL
949-341-0920

LAND SURVEYOR:
WALDEN & ASSOCIATES
2552 WHITE RD, SUITE B
IRVINE, CA 92614
JEFFREY WALDEN
949-660-0110

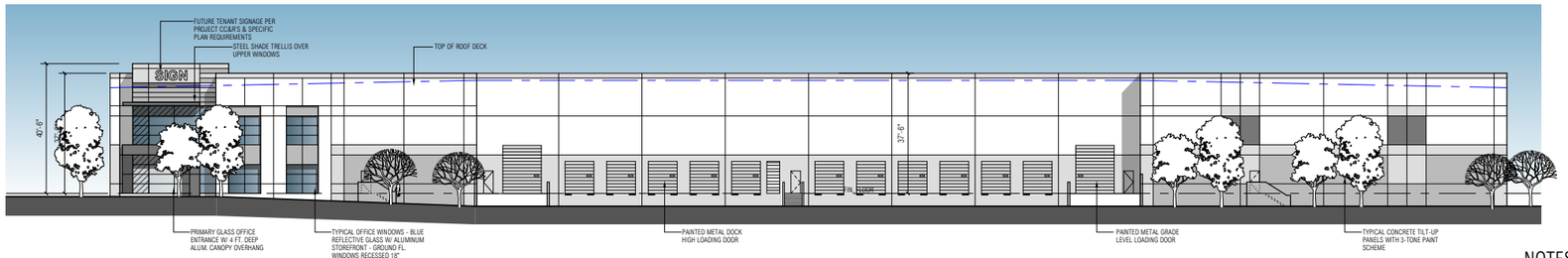
08/06/2019

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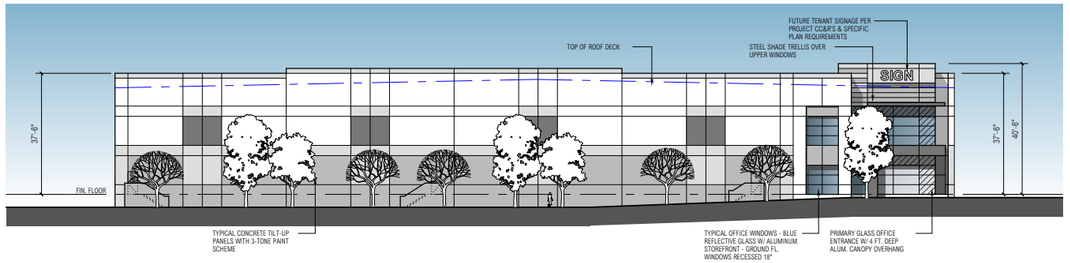
Building 1 Elevation



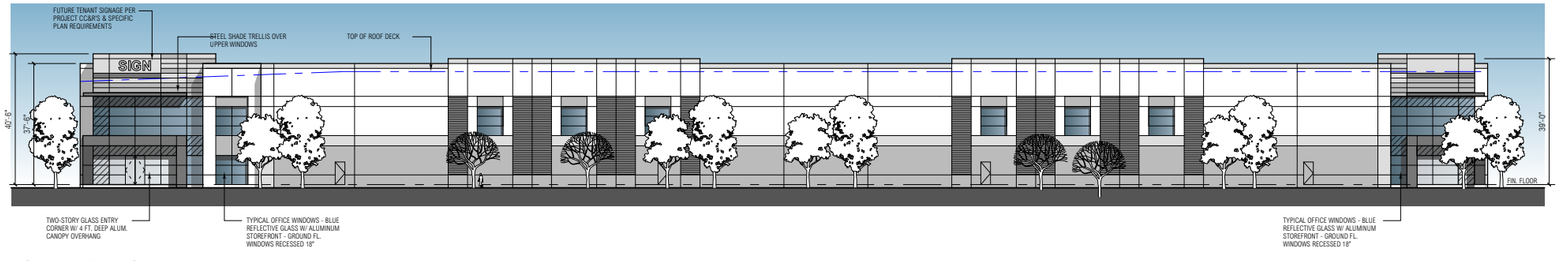
WEST ELEVATION



SOUTH ELEVATION



EAST ELEVATION



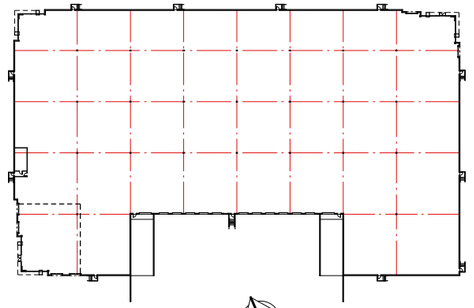
NORTH ELEVATION



SIMILAR SITE LIGHTING STYLE (2)
SCALE: N.T.S.



SIMILAR ENTRY LIGHTING STYLE (1)
SCALE: N.T.S.



BUILDING FLOOR KEY PLAN

NOTES:

1. ALL ROOFTOP MECH. EQUIPMENT SHALL BE SCREENED FROM VIEW.

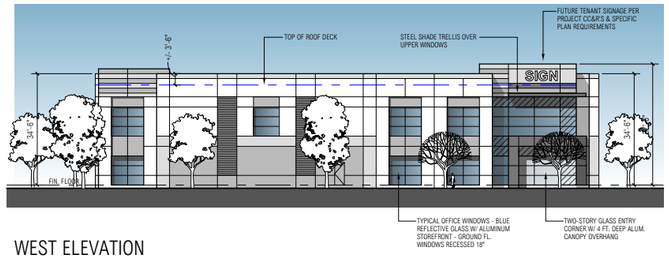
2. PROVIDE GRAFFITI RESISTANT COATING TO A HEIGHT OF 12 FEET ON THE WEST ELEVATION.

FINISH SCHEDULE:

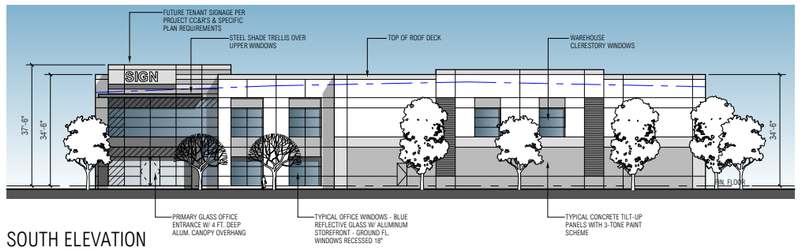
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2. LIGHT ACCENT COLOR
   FRAZEE - CL 3214M - WAVELENGTH
3. DARK ACCENT COLOR
   FRAZEE - CL 3215D - ELF
4. DARK ACCENT COLOR
   FRAZEE - CL 3216A - BRAINCHILD
5. CANOPIES - ALUCOBOND:
   NATURAL BRUSHED GRAPHITE
6. GLASS - PRIMARY WINDOW
   PPG SOLARCOOL PACIFICA
7. GLASS - ACCENT COLOR AT ENTRIES
   PPG VISTACOOL PACIFICA

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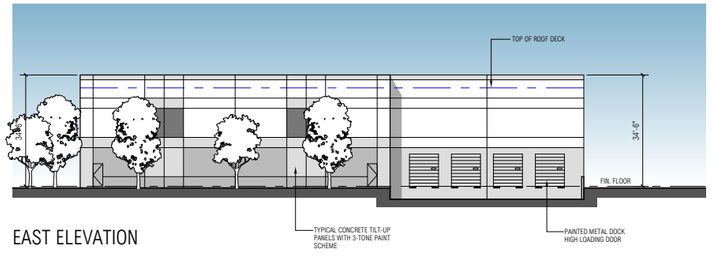
Building 2 Elevations



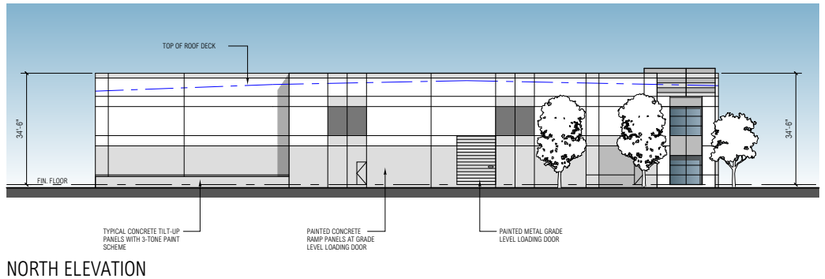
WEST ELEVATION



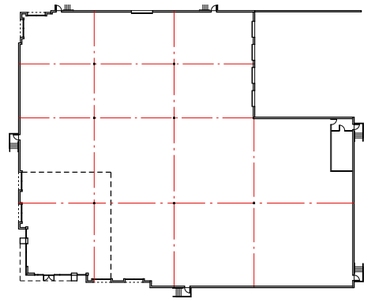
SOUTH ELEVATION



EAST ELEVATION



NORTH ELEVATION



BUILDING FLOOR KEY PLAN



SIMILAR SITE LIGHTING STYLE



SIMILAR ENTRY LIGHTING STYLE

NOTES:

1. ALL ROOFTOP MECH. EQUIPMENT SHALL BE SCREENED FROM VIEW.

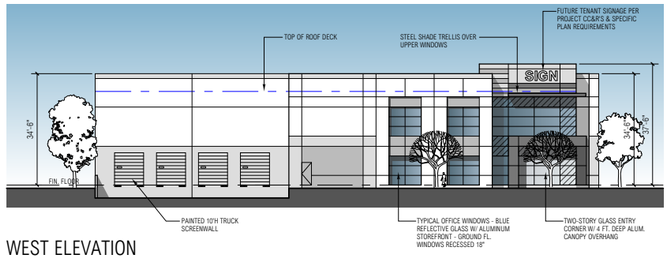
2. PROVIDE GRAFFITI RESISTANT COATING TO A HEIGHT OF 12 FEET ON THE WEST ELEVATION.

FINISH SCHEDULE:

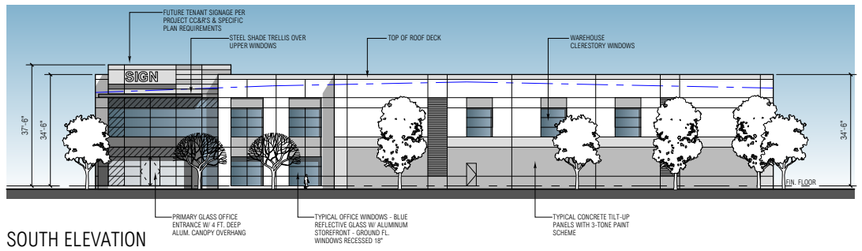
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2. LIGHT ACCENT COLOR
   FRAZEE - CL 3214M - WAVELENGTH
3. DARK ACCENT COLOR
   FRAZEE - CL 3215D - ELF
4. DARK ACCENT COLOR
   FRAZEE - CL 3216A - BRAINCHILD
5. CANOPIES - ALUCOBOND:
   NATURAL BRUSHED GRAPHITE
6. GLASS - PRIMARY WINDOW
   PPG SOLARCOOL PACIFICA

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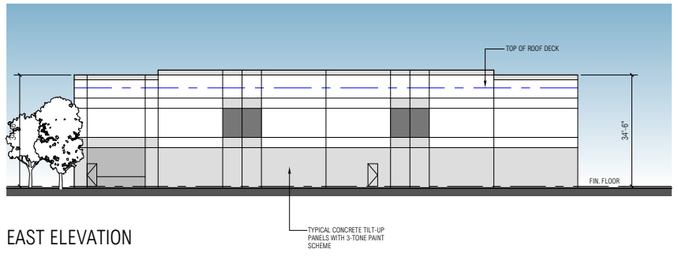
Building 3 Elevations



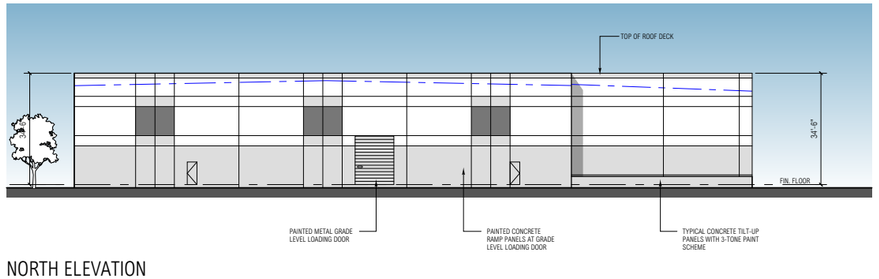
WEST ELEVATION



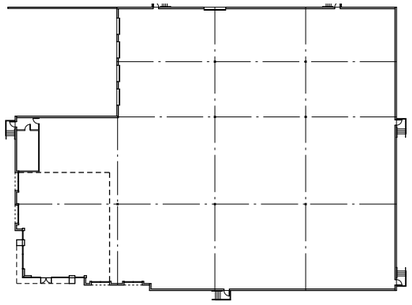
SOUTH ELEVATION



EAST ELEVATION



NORTH ELEVATION



BUILDING FLOOR KEY PLAN





NOTES:

1. ALL ROOFTOP MECH. EQUIPMENT SHALL BE SCREENED FROM VIEW.

2. PROVIDE GRAFFITI RESISTANT COATING TO A HEIGHT OF 12 FEET ON THE WEST ELEVATION.

FINISH SCHEDULE:

1. FIELD COLOR
   FRAZEE - CL 3211W - WASH BASIN
2. LIGHT ACCENT COLOR
   FRAZEE - CL 3214M - WAVELENGTH
3. DARK ACCENT COLOR
   FRAZEE - CL 3215D - ELF
4. DARK ACCENT COLOR
   FRAZEE - CL 3216A - BRAINCHILD
5. CANOPIES - ALUCOBOND:
   NATURAL BRUSHED GRAPHITE
6. GLASS - PRIMARY WINDOW
   PPG SOLARCOOL PACIFICA

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Landscaping

Landscaping onsite would surround all buildings with the exception of the north and eastern edges of Building 3. A north-south concrete sidewalk would be to the west of the proposed buildings, parallel to Pioneer Boulevard, with 24-inch and 36-inch box trees to enhance to the overall curb appeal from the public right-of-way. The proposed project would provide greater landscaping than what is required by the City's Municipal Code, as detailed in Table 4. The conceptual landscape plan includes low water use shrubs, trees, and ground cover. Figure 7, *Conceptual Landscape Plan* shows the proposed landscaping for the project.

Table 4: Proposed Landscaping Breakdown

	Building 1	Buildings 2 & 3	Total
Landscaping Required	11,257 sf	8,491 sf	19,748 sf
Landscaping Provided	22,420 sf	16,673 sf	39,093 sf

Infrastructure Improvements

Water and Sewer
The proposed Project would install new onsite water and sewer lines that would connect to the existing water and sewer infrastructure within Pioneer Boulevard.

Drainage
During operation, drainage would generally flow to the east starting from an existing east-west 24-inch line within Pioneer Boulevard to an existing east-west 42-inch line that bisects the site to finally connect a north-south 84-inch storm drain line offsite. Storm drain lines would be installed to serve each building and connect to biofiltration basins along the western side of the site or biofiltration chambers along the eastern side of the site. Figure 8, *Preliminary Grading Plan* and Figure 9, *Preliminary Wet Utility Plan* shows existing infrastructure and proposed improvements onsite.

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Conceptual Landscape Plan



PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	CONT	WUCOL	QTY
	Koelreuteria bipinnata / Chinese Flame Tree Multi-Trunk	36"box	Med	14
	Melaleuca quinquenervia / Cajeput Tree Standard	24"box	Med	25
	Pinus canariensis / Canary Island Pine	24"box	Low	10
	Podocarpus gracilior / Fern Pine	24"box		15
	Quercus virginiana / Southern Live Oak	24"box	Low	18
	Rhus lancea / African Sumac	24"box	Low	4
	Tristania conferta / Brisbane Box	24"box	Med	47

CONCEPT PLANT SCHEDULE

FOUNDATION PLANTING / HEDGE SCREEN - 5 GAL - MED WATER
Buxus microphylla japonica 'Green Beauty' / Green Beauty Boxwood - Space 30" o.c.
Ligustrum texanum / Texas Privet - Space 3'-6" o.c.
Nandina domestica / Heavenly Bamboo
Rhaphiolepis indica 'Jack Evans' / Indian Hawthorn

LARGE SCALE FOUNDATION SHRUB - 5 GAL - LOW WATER
Callistemon citrinus / Lemon Bottlebrush Shrub
Dodonaea viscosa 'Purpurea' / Purple Leafed Hopseed Bush
Elaeagnus pungens 'Frustlandi' / Silverberry
Heteromeles arbutifolia / Toyon - Space 6' o.c.
Nerium oleander 'White' / White Oleander

SMALL SCALE FOUNDATION PLANTING - 5 GAL - LOW WATER
Arbutus unedo / Strawberry Tree Shrub - Space 5' o.c.
Leucophyllum frutescens 'Green Cloud' TM / Green Cloud Texas Ranger
Nerium oleander 'Pink' / Pink Oleander
Nerium oleander 'Red' / Red Oleander
Westringia fruticosa / Coast Rosemary - Space 4' o.c.
Xylosma congestum 'Compacta' / Compact Xylosma

VINES FOR SCREENING - 5 GAL - LOW WATER
Bougainvillea x 'San Diego Red' / Bougainvillea
Macfadyena unguis-cati / Yellow Trumpet Vine spaced @ 10' o.c.

SHRUB PALETTE - LOW WATER USE
Shrubs
Agave americana / Century Plant - Space 6' o.c.
Aloe striata / Coral Aloe
Arbutus unedo / Strawberry Tree Shrub - Space 5' o.c.
Bougainvillea x 'Raspberry' / Bougainvillea
Callistemon citrinus / Lemon Bottlebrush Shrub- Space 5' o.c.
Callistemon citrinus 'Little John' / Dwarf Bottle Brush- Space 3' o.c.
Dodonaea viscosa 'Purpurea' / Purple Leafed Hopseed Bush
Elaeagnus pungens 'Frustlandi' / Silverberry
Leucophyllum frutescens 'Green Cloud' TM / Green Cloud Texas Ranger
Macfadyena unguis-cati / Yellow Trumpet Vine spaced @ 10' o.c.
Muhlenbergia capillaris / Pink Muhly
Muhlenbergia capillaris 'Autumn Blush' / Pink Muhly
Muhlenbergia lindheimeri 'Autumn Glow' TM / Lindheimer's Muhly Space 4' o.c.
Nerium oleander 'Petite Pink' / Petite Pink Oleander - Space 4' o.c.
Nerium oleander 'Pink' / Pink Oleander
Nerium oleander 'Red' / Red Oleander
Nerium oleander 'White' / White Oleander
Pennisetum x 'Fairy Tails' / Evergreen Fountain Grass
Salvia greggii 'Furmans Red' / Furman's Red Salvia
Westringia fruticosa / Coast Rosemary - Space 4' o.c.
Xylosma congestum 'Compacta' / Compact Xylosma

SHRUB PALETTE - MEDIUM WATER USE
Buxus microphylla japonica 'Green Beauty' / Green Beauty Boxwood - Space 30" o.c.
Ligustrum texanum / Texas Privet - Space 3'-6" o.c.
Nandina domestica / Heavenly Bamboo
Phormium tenax 'Amazing Red' / Dwarf Red Flax
Rhaphiolepis indica 'Jack Evans' / Indian Hawthorn
Rosa floribunda 'Iceberg' / Iceberg Rose

GROUND COVER PALETTE - LOW WATER USE - 1 GAL
Acacia redolens 'Desert Carpet' TM / Bank Catclaw Space 4' o.c.
Lantana montevidensis 'New Gold' / Trailing Lantana Space 3' o.c.
Lonicera japonica 'Halliana' / Halls Honeysuckle Flowering Vine
Rosmarinus officinalis 'Huntington Carpet' / Huntington Carpet Rosemary - Space 3' o.c.

GROUND COVER PALETTE - MEDIUM WATER USE - 1 GAL
Dianella tasmanica 'Casa Blue' / Flax Lily
Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily
Pennisetum spathiolatum / Rye Puffs
Rosa x 'Noare' Flower Carpet Red / Rose
Trachelospermum jasminoides / Chinese Star Jasmine

NOTES

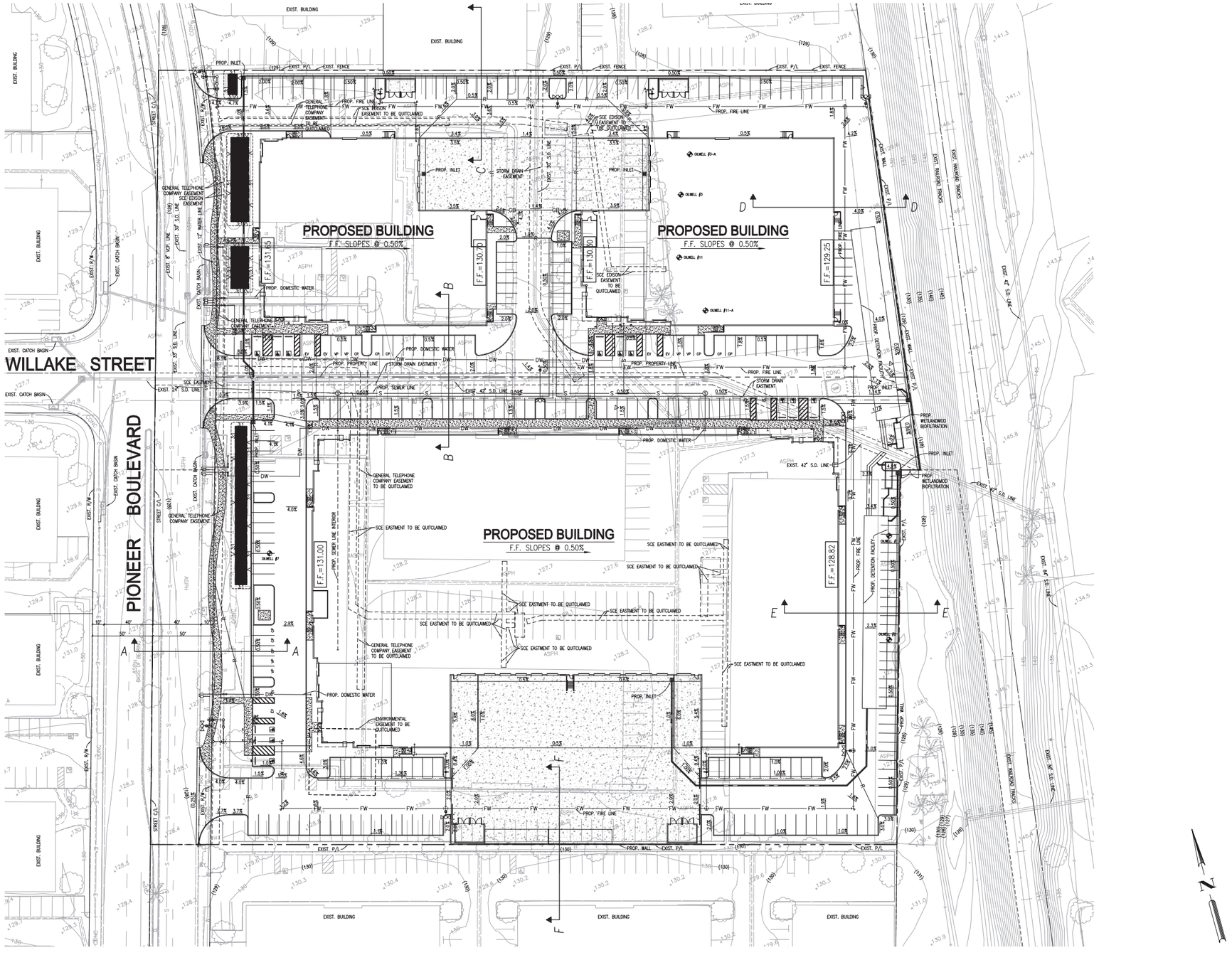
1. ALL TREES WITHIN 6' OF HARDSCAPE SHALL BE IN A SHAWTOWN LINEAR (WRAP AROUND NOT ALLOWED) ROOT BARRIER 24" HIGH LINEAR ROOT BARRIER SHALL BE CENTERED ON TREE AND EXTEND 5' IN BOTH DIRECTIONS FOR A TOTAL OF 10'
2. NOTE: QUANTITIES AND AREA CALCULATIONS SHOWN IN LEGEND ARE FOR REFERENCE ONLY. CONTRACTOR REPONSIBLE FOR ALL QUANTITY TAKE-OFFS AND AREA CALCULATIONS FOR DETERMINING COST AND DELIVERY OF MATERIALS TO SITE.

SHREDDED MULCH NOTE

ALL PLANTER AREAS TO RECEIVE A 3" LAYER OF SHREDDED COVER MULCH AVAILABLE FROM EARTHWORKS (951)782-0260

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Preliminary Grading Plan

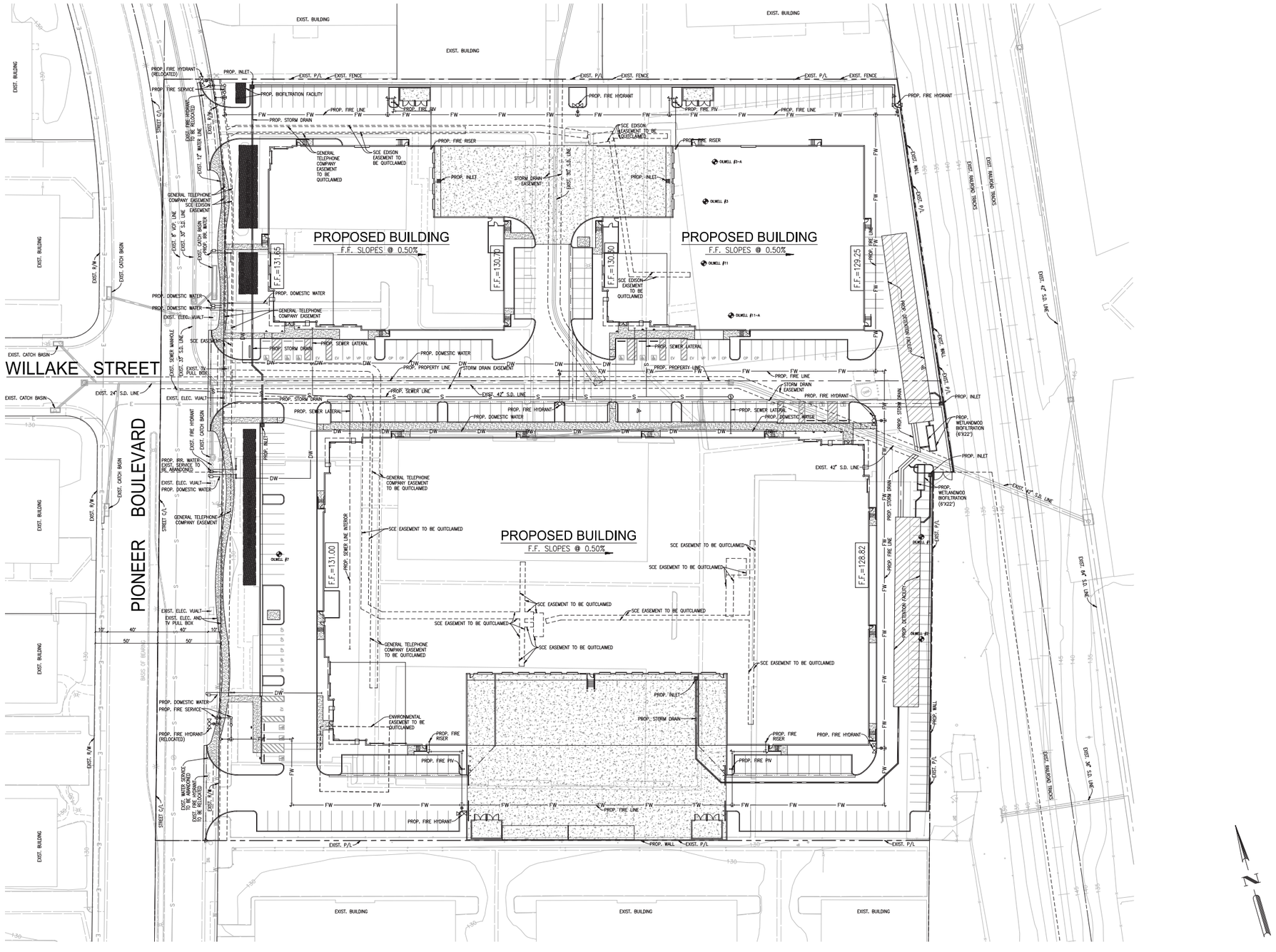


Pioneer Boulevard Development
IS/MND
City of Santa Fe Springs

Figure 8

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Preliminary Wet Utility Plan



Pioneer Boulevard Development
IS/MND
City of Santa Fe Springs

Figure 9

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3.3 CONSTRUCTION

Construction activities for the project would occur over one phase lasting approximately 14 months or less and in the following stages: (1) demolition and removal of existing structures, foundations, asphalt/pavement, utilities, and other subsurface improvements; (2) grading and excavation; (3) site preparation, which includes clearing any remaining infrastructure, utilities, and trenching for the new utilities and services; (4) building construction; and (5) landscape installation, paving, and application of architectural coatings. Project construction is anticipated to start in 2020 and be completed in 2021. Table 5 details total working days for each phase of construction for analytical purposes. Construction activities would be limited to the hours between 7:00 a.m. and 7:00 p.m. pursuant to the City's Municipal Code Chapter 155.425.

Table 5: Construction Schedule

Construction Phase	Work Days
Demolition	20
Site Preparation	10
Grading	20
Building Construction	230
Paving	20
Architectural Coating	40

The project would require the import of approximately 9,500 cubic yards of material. Construction activities include removal and re-compaction of soils to a minimum depth of 8 feet below existing grade or 3 feet beneath the base of the building foundations, whichever is deeper. Other areas onsite would require removal and re-compaction at least 5 feet beneath the existing grade or 2 feet beneath the finished subgrade within pavement areas, pursuant to California Building Code (CBC) requirements.

4 ENVIRONMENTAL CHECKLIST

This section includes the completed environmental checklist form. The checklist form is used to assist in evaluating the potential environmental impacts of the proposed project. The checklist form identifies potential project effects as follows: 1) Potentially Significant Impact; 2) Less Than Significant with Mitigation Incorporated; 3) Less Than Significant Impact; and, 4) No Impact. Substantiation and clarification for each checklist response is provided in Section 5 (Environmental Evaluation). Included in the discussion for each topic are standard condition/regulations and mitigation measures, if necessary, that are recommended for implementation as part of the proposed project.

4.1 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below (☒) would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

Environmental Factors Potentially Affected

☐	Aesthetics	☐	Agriculture and Forest Resources	☐	Air Quality
☒	Biological Resources	☒	Cultural Resources	☐	Energy
☒	Geology/Soils	☐	Greenhouse Gas Emissions	☒	Hazards and Hazardous Materials
☐	Hydrology/Water Quality	☐	Land Use/Planning	☐	Mineral Resources
☐	Noise	☐	Population/Housing	☐	Public Services
☐	Recreation	☐	Transportation	☒	Tribal Cultural Resources
☐	Utilities/Service Systems	☐	Wildfire	☐	Mandatory Findings of Significance

4.2 DETERMINATION

(To be completed by the Lead Agency) on the basis of this initial evaluation

☐	I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
☒	I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
☐	I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
☐	I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
☐	I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature	Date
Cuong Nguyen	City of Santa Fe Springs
Printed Name	For

EVALUATION OF ENVIRONMENTAL IMPACTS

1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g. the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g. the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than

significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.

4) "Negative Declaration: Potentially Significant Unless Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analysis," as described in (5) below, may be cross-referenced).

5) Earlier analysis may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063 (c)(3)(d). In this case, a brief discussion should identify the following:

   (a) Earlier Analysis Used. Identify and state where they are available for review.

   (b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.

   (c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g. general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.

9) The analysis of each issue should identify: (a) the significance criteria or threshold used to evaluate each question; and (b) the mitigation measure identified, if any, to reduce the impact to less than significance.

4.3 ENVIRONMENTAL CHECKLIST QUESTIONS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
1. AESTHETICS. Except as provided in Public Resources Code Section 21099 would the project:				
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway	☐	☐	☐	☒
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

a) Have a substantial adverse effect on a scenic vista?

No Impact. Scenic vistas consist of expansive, panoramic views of important, unique, or highly valued visual features that are seen from public viewing areas. This definition combines visual quality with information about view exposure to describe the level of interest or concern that viewers may have for the quality of a particular view of visual setting.

The project site is within an urbanized developed area of the City of Santa Fe Springs. The site is surrounded by business park uses to the north, south, and west. Southern Pacific railroad tracks border the site to the east, and industrial uses exist beyond. Existing public vantage points exist along roadways that surround the project site, which do not contain expansive scenic vistas. The project would redevelop the site and construct three new structures that would be similar to the height of the existing onsite buildings. Because there are no existing scenic vistas and the project would result in similar onsite development, implementation of the proposed project would not result in an impact on a scenic vista. No impact would occur.

b) Substantially damage scenic resources, including, trees, rock outcroppings, and historic buildings within a state scenic highway?

No Impact. The nearest Officially Designated State Scenic Highway is a portion of State Route 57 (SR-57), which runs north-south starting north of the City of Brea to the State Route 60 interexchange (Caltrans 2019). This portion of SR-57 is located 11.5 miles east of the Project site and is not visible

from the project site. Therefore, no impacts to scenic resources within a state scenic highway would occur.

c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Less than Significant Impact. The project site is located within an urbanized area of the City of Santa Fe Springs, surrounded by business park and industrial land uses. The proposed project would redevelop the site and construct three new concrete tilt-up industrial buildings, which would be an upgrade to the existing development on the site. Development of the site would be consistent with the General Plan and the City's Zoning Code. This includes site design requirements including but not limited to setbacks, building heights, parking, and landscaping, which would not substantially degrade the existing visual character or quality of public views of the site and its surroundings. The project's compliance with building code requirements would be verified during the City's plan check and permitting process. As a result, impacts related to scenic quality within the urbanized environment would be less than significant.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less than Significant Impact. The project site is located within a developed urban area. Existing sources of light in the vicinity of the project site includes: street lights, parking lot lighting, building illumination, security lighting, landscape lighting, and lighting from building interiors that passthrough windows. The exterior lighting on the project site includes exterior building mounted lighting and lighting at building entrances.

Construction. Although construction activities would occur primarily during daylight hours, construction activities could extend into the evening hours, as permitted by the City's Municipal Code Chapter 155.425 (permitted construction activities from 7:00 a.m. to 7:00 p.m.). Lighting required during construction of the project would be shielded and directed toward work activity areas, in compliance with Municipal Code Chapters 155.432 and 155.496 (included as PPP AES-1) that provides for directing lighting away from adjacent uses and intensity of security lighting. In addition, construction may include nighttime security lighting; however, this would be similar to the existing security lighting on the site, adjacent sites, and streetlights. Also, any construction related lighting would be temporary (approximately 14 months). Therefore, construction of the project would not create a new source of substantial light that would adversely affect day or nighttime views in the area, and light impacts associated with construction would be less than significant.

Operation. The project would include the provision of nighttime lighting for security purposes around the building and in the parking areas. Implementation of the project could contribute additional sources to the overall ambient nighttime lighting conditions. However, the project site is currently developed and emanates light from the existing buildings and parking areas, and the site is located within an urban area that includes various sources of nighttime lighting. Additionally, all outdoor lighting would be hooded or appropriately angled away from adjacent land uses and would comply with Municipal Code Chapters 155.432 and 155.496 (included as PPP AES-1) that provides for directing lighting away from adjacent uses and intensity of security lighting. Because the project area is within an already developed area with various sources of existing nighttime lighting, and because the project would be required to comply with the City's lighting regulations that would be verified by the City during the plan check and permitting process, any increase in lighting that

would be generated by the project would not adversely affect day or nighttime views in the area. Overall, lighting impacts would be less than significant.

Reflective light (glare) can be caused by sunlight or artificial light reflecting from finished surfaces such as window glass or other reflective materials. Generally, darker or mirrored glass would have a higher visible light reflectance than clear glass. Buildings constructed of highly reflective materials from which the sun reflects at a low angle can cause adverse glare. However, the project would not use highly reflective surfaces, or glass sided buildings. Although the building would contain windows, the windows would be comprised of blue reflective glazing, which reduces glare over other transparent surfaces and the windows would be separated by stucco that would limit the potential of glare. As described previously, onsite lighting would be angled down and be compliant with Municipal Code Chapter 155.432 and 155.496 (included as PPP AES-1), which would avoid the potential of onsite lighting generating offsite glare. Therefore, the project would not generate substantial sources of glare, and impacts would be less than significant.

Existing Plans, Programs, or Policies

PPP AES-1: Glare. Pursuant to Municipal Code Chapters 155.432 and 155.496, no activity shall be permitted which causes light or glare to be transmitted or reflected in such concentrated quantities as to be detrimental or harmful to the use of surrounding properties or streets.

Mitigation Measures

No mitigation measures related to aesthetics are required.

Sources

California Department of Transportation (Caltrans 2019). California Scenic Highway Mapping System, Los Angeles County and Orange County. Accessed June 2019. Available at: http://www.dot.ca.gov/hq/LandArch/16_livability/scenic_highways/

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
2. AGRICULTURE AND FORESTRY RESOURCES. In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

No Impact. The project site is developed for urban uses and located in an area that is completely developed for urban uses. The project site and its vicinity are void of agricultural uses. The California Department of Conservation Farmland Mapping and Monitoring Program identifies the site as urban land and it is not identified as Prime, Unique, or Farmland of Statewide Importance (CDC 2019). Therefore, conversion of such farmland designations would not occur from implementation of the proposed project. No impact would occur.

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Impact. The project site is currently zoned Limited Manufacturing (ML), which does not provide for agricultural uses. In addition, the site is not subject to a Williamson Act contract. Thus, the proposed project would not result in impacts related to conflict with an existing agricultural zone or Williamson contract, and impacts would not occur.

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

No Impact. The project site currently includes business park and industrial land uses and is within an urbanized developed area. No forest land exists on or adjacent to the project site. The project site is currently zoned Limited Manufacturing (ML) and is not zoned for forest land or timberland uses. Thus, the proposed project would not result in impacts related to a conflict with existing forest land or timberland zoning, and impacts would not occur.

d) Result in the loss of forest land or conversion of forest land to non-forest use?

No Impact. The project site currently includes business park and industrial uses and is within an urbanized developed area. No forest land exists on or adjacent to the project site. Thus, the project would not result in the loss of forest land or conversion of forest land to a non-forest use, and impacts would not occur.

e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

No Impact. As described above, the project site currently includes business park and industrial land uses and is within an urbanized developed area. No forest land exists on or adjacent to the project site. Therefore, the implementation of the proposed project would not involve other changes in the existing environment which would result in the conversion of farmland to a non-agricultural use or the conversion of forest land to a non-forest use. Therefore, no impacts would occur.

Existing Plans, Programs, or Policies

There are no impacts reducing Plans, Programs, and Policies related to agriculture and forestry that are applicable to the project.

Mitigation Measure

No mitigation measures related to agriculture and forestry are required.

Sources

California Department of Conservation (CDC 2019). Division of Land Resource Protection. Farmland Mapping and Monitoring Program. Los Angeles County. Available at: https://www.conservation.ca.gov/dlrp/fmmp/Pages/LosAngeles.aspx

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
3. AIR QUALITY. Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d) Result in other emissions (such as those leading to odors) affecting a substantial number of people?	☐	☐	☒	☐

The discussion below is based on the Air Quality Impact Analysis (Urban 2019a) and the Mobile Source Health Risk Assessment (Urban 2019a), prepared by Urban Crossroads, included as Appendix A and B.

a) Conflict with or obstruct implementation of the applicable air quality plan?

Less than Significant Impact. The project site is located in the South Coast Air Basin, which is under the jurisdictional boundaries of the South Coast Air Quality Management District (SCAQMD). The SCAQMD and Southern California Association of Governments (SCAG) are responsible for preparing the Air Quality Management Plan (AQMP), which addresses federal and state Clean Air Act (CAA) requirements. The AQMP details goals, policies, and programs for improving air quality in the Basin. In preparation of the AQMP, SCAQMD and SCAG use land use designations contained in General Plan documents to forecast, inventory, and allocate regional emissions from land use and development-related sources.

For purposes of analyzing consistency with the AQMP, if a proposed project would have a development density and vehicle trip generation that is substantially greater than what was anticipated in the General Plan, then the proposed project would conflict with the AQMP. On the other hand, if a project's density is consistent with the General Plan, its emissions would be consistent with the assumptions in the AQMP, and the project would not conflict with SCAQMD's attainment plans. In addition, the SCAQMD considers projects consistent with the AQMP if the project would not result in an increase in the frequency or severity of existing air quality violations or cause a new violation.

As detailed below, the proposed project would not result in exceedance of local or regional

significance thresholds. The project site is designated as Business Park in the City's General Plan, which allows for industrial uses such as limited manufacturing, research, and light assembly operations. The proposed project would develop three new concrete tilt-up industrial buildings, which would have new limited manufacturing uses that would replace the existing uses on the subject site.

In addition, emissions generated by construction and operation of the project would not exceed thresholds as described in the analysis below, which are based on the AQMP and are designed to bring the Basin into attainment for the criteria pollutants for which it is in nonattainment. Therefore, because the project does not exceed any of the thresholds it would not conflict with SCAQMD's goal of bringing the Basin into attainment for all criteria pollutants and, as such, is consistent with the AQMP. As a result, impacts related to conflict with the AQMP from the project would be less than significant.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Less than Significant Impact. The South Coast Air Basin (SCAB) is in a non-attainment status for federal ozone standards, federal carbon monoxide standards, and state and federal particulate matter standards. Any development in the SCAB, including the proposed project, could cumulatively contribute to these pollutant violations. The methodologies from the SCAQMD CEQA Air Quality Handbook are used in evaluating project impacts. SCAQMD has established daily mass thresholds for regional pollutant emissions, which are shown in Table AQ-1. Should construction or operation of the proposed project exceed these thresholds a significant impact could occur; however, if estimated emissions are less than the thresholds, impacts would be considered less than significant.

Table AQ-1: SCAQMD Regional Daily Emissions Thresholds

Pollutant	Construction (lbs/day)	Operations (lbs/day)
NOx	100	55
VOC	75	55
PM10	150	150
PM2.5	55	55
SOx	150	150
CO	550	550
Lead	3	3

Source: Regional Thresholds presented in this table are based on the SCAQMD Air Quality Significance Thresholds, March 2015 (Urban Crossroads, 2019a).

Construction

Construction activities associated with the proposed project would generate pollutant emissions from the following construction activities: demolition, site preparation, grading, building construction, paving, architectural coating. The amount of emissions generated on a daily basis would vary, depending on the intensity and types of construction activities occurring. Construction activities would generate emissions from the demolition of 157,669 square feet of existing building space. In addition, the project would require 9,500 cubic yards of import and generate a need for construction worker vehicle trips to and from the project site during the estimated 14 months of construction.

It is mandatory for all construction projects to comply with several SCAQMD Rules, including Rule 403 for controlling fugitive dust, PM_{10}, and $PM_{2.5}$ emissions from construction activities. Rule 403

requirements include, but are not limited to, applying water in sufficient quantities to prevent the generation of visible dust plumes, applying soil binders to uncovered areas, reestablishing ground cover as quickly as possible, utilizing a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the proposed project site, covering all trucks hauling soil with a fabric cover and maintaining a freeboard height of 12-inches, and maintaining effective cover over exposed areas. Compliance with Rule 403 was accounted for in the construction emissions modeling and is included as PPP AQ-1.

In addition, implementation of SCAQMD Rule 1113 that governs the VOC content in architectural coating, paint, thinners, and solvents, was accounted for in the construction emissions modeling, and is included as PPP AQ-2. As shown in Table AQ-2, CalEEMod results show that construction emissions generated by the proposed project would not exceed SCAQMD regional thresholds. Therefore, construction activities would result in a less than significant impact.

Table AQ-2: Overall Construction Emissions Summary

Activity	Emissions (lbs/day)					
	VOC	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
2020	4.17	43.13	25.27	0.07	10.07	6.02
2021	21.88	24.91	24.37	0.06	3.14	1.55
Maximum Daily Emissions	**21.88**	**43.13**	**25.27**	**0.07**	**10.07**	**6.02**
Significance Threshold	75	100	550	150	150	55
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: NOx = nitrogen oxides; CO = carbon monoxide
PM_{10} and $PM_{2.5}$ = particular matter; VOC = volatile organic compounds
SOx = sulfur oxides

Source: Urban Crossroads, 2019a

Operation

Implementation of the proposed project would result in long-term regional emissions of criteria air pollutants and ozone precursors associated with area sources, such as natural gas consumption, landscaping, applications of architectural coatings, and consumer products. However, operational vehicular emissions would generate a majority of the emissions generated from the project.

Operational emissions associated with the proposed project were modeled using CalEEMod and are presented in Table AQ-3. As shown, the proposed project would result in long-term regional emissions of the criteria pollutants that would be below the SCAQMD's applicable thresholds. Therefore, the project's operational emissions would not exceed the NAAQS and CAAQS, would not result in a cumulatively considerable net increase of any criteria pollutant impacts, and would be less than significant.

Table AQ-3: Summary of Operational Emissions

Operational Year (Summer Season)	Emissions (lbs/day)					
	VOC	**NOx**	**CO**	**SOx**	**PM_{10}**	**$PM_{2.5}$**
Area Source	3.74	5.70e-04	0.06	0.00	2.20e-04	2.20e-04
Energy Source	0.07	0.62	0.52	3.69e-03	0.05	0.05
Mobile Source (Passenger Cars)	1.73	1.59	27.02	0.08	8.09	2.17
Mobile Source (Trucks)	1.58	40.62	11.57	0.16	6.69	2.27
On-Site Equipment	0.14	1.55	0.77	3.17e-03	0.05	0.05
Total Maximum Daily Emissions	**7.26**	**44.37**	**39.94**	**0.24**	**14.88**	**4.54**
Existing Emissions	***8.91***	***16.13***	***55.76***	***0.16***	***14.12***	***3.94***
Net Emissions (Project – Existing)	**-1.65**	**28.24**	**-15.82**	**0.08**	**0.77**	**0.60**
SCAQMD Significance Threshold	55	55	550	150	150	55
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**
Operational Year (Winter Season)						
Area Source	3.74	5.70e-04	0.06	0.00	2.20e-04	2.20e-04
Energy Source	0.07	0.62	0.52	3.69e-03	0.05	0.05
Mobile Source (Passenger Cars)	1.73	1.74	24.40	0.07	8.09	2.17
Mobile Source (Trucks)	1.54	41.87	10.23	0.16	6.68	2.27
On-Site Equipment	0.14	1.55	0.77	3.17e-03	0.05	0.05
Total Maximum Daily Emissions	**7.22**	**45.76**	**35.98**	**0.24**	**14.87**	**4.54**
Existing Emissions	***8.94***	***16.72***	***52.34***	***0.15***	***14.11***	***3.91***
Net Emissions (Project – Existing)	**-1.73**	**29.04**	**-16.36**	**0.09**	**0.76**	**0.63**
SCAQMD Significance Threshold	55	55	550	150	150	55
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: NOx = nitrogen oxides; CO = carbon monoxide; PM_{10} and $PM_{2.5}$ = particular matter; VOC = volatile organic compounds; SOx = sulfur oxides

Source: Urban Crossroads, 2019a

c) Expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact. The SCAQMD recommends the evaluation of localized NO_2, CO, PM_{10}, and $PM_{2.5}$ construction-related impacts to sensitive receptors in the immediate vicinity of the project site. Such an evaluation is referred to as a localized significance threshold (LST) analysis. The impacts were analyzed pursuant to the SCAQMD's Final Localized Significance Threshold Methodology. According to the LST Methodology, "off-site mobile emissions from the project should not be included in the emissions compared to the LSTs" (Urban 2019a). SCAQMD has developed LSTs that represent the maximum emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standards, and thus would not cause or contribute to localized air quality impacts. LSTs are developed based on the ambient concentrations of NOx, CO, PM_{10}, and $PM_{2.5}$ pollutants for each of the 38 source receptor areas (SRAs) in the SCAB. The project site is located in SRA 5, Southeast Los Angeles County.

Sensitive receptors can include uses such as long-term health care facilities, rehabilitation centers, and retirement homes. Residences, schools, playgrounds, childcare centers, and athletic facilities can also be considered sensitive receptors. The nearest LST sensitive receptor to the project site is an existing residence located 1,000 feet northwest of the project site on Arlee Avenue.

Construction

The localized thresholds from the mass rate look-up tables in SCAQMD's Final Localized Significance Threshold Methodology document, were developed for use on projects that are less than or equal to 5-acres in size or have a disturbance of less than or equal to 5 acres daily and were used to evaluate LSTs. As shown in Table AQ-4, with implementation of SCAQMD Rules 403 and 1113

(included as PPP AQ-1 and PPP AQ-2), the maximum daily construction emissions from the proposed project would not exceed the applicable SCAQMD LST thresholds.

Table AQ-4: Localized Significance Summary of Construction

Activity	Emissions (lbs/day)			
	NOx	CO	PM10(1)	PM2.5(1)
On-Site Demolition				
Maximum Daily Emissions	**33.20**	**21.75**	**4.69**	**2.00**
SCAQMD Localized Threshold	80	571	103	42
Threshold Exceeded?	**No**	**No**	**No**	**No**
Site Preparation				
Maximum Daily Emissions	**42.42**	**21.51**	**9.86**	**5.96**
SCAQMD Localized Threshold	97	716	112	47
Threshold Exceeded?	**No**	**No**	**No**	**No**
Grading				
Maximum Daily Emissions	**26.39**	**16.05**	**4.06**	**2.51**
SCAQMD Localized Threshold	80	571	103	42
Threshold Exceeded?	**No**	**No**	**No**	**No**

Notes: NOx = nitrogen oxides; CO = carbon monoxide; PM_{10} and $PM_{2.5}$ = particular matter; VOC = volatile organic compounds; SOx = sulfur oxides

Source: Urban Crossroads, 2019a

Operation

Localized Significance Analysis

For operational LSTs, on-site passenger car and truck travel emissions were modeled. As shown on Table AQ-5, operational emissions would not exceed the SCAQMD's LST thresholds for any criteria pollutant at the nearest sensitive receptor. Therefore, the project would result in a less than significant impact related to localized emissions from operational activities.

Table AQ-5: Localized Significance Summary of Operations

Operational Activity	Emissions (lbs/day)			
	NOx	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**4.34**	**3.28**	**0.84**	**0.32**
SCAQMD Significance Threshold	172	1,480	32	14
Threshold Exceeded?	**No**	**No**	**No**	**No**

Notes: PM_{10} and $PM_{2.5}$ = particular matter; VOC = volatile organic compounds; SOx = sulfur oxides

Source: Urban Crossroads, 2019a

CO "Hot Spot" Analysis

Regarding potential "hot spots" of CO that could result from the project, Appendix A of this IS/MND describes that a daily traffic volume of 400,000 vehicles per day would not exceed the most stringent 1-hour CO standard (20 ppm).

The proposed project would not produce the volume of traffic required to generate a CO "hot spot" either in the context of the 2003 Los Angeles hot spot study or based on representative BAAQMD CO threshold considerations (Urban 2019a). Therefore, CO "hot spots" are not an environmental impact of concern for the proposed project. Localized air quality impacts related to mobile-source emissions would therefore be less than significant.

Diesel Mobile Source Health Risk Analysis

A Diesel Mobile Source Health Risk Assessment, included as Appendix B, was prepared for the project to evaluate the health risk impacts as a result of exposure to diesel particulate matter (DPM)

as a result of heavy-duty diesel trucks entering and leaving the site during operation of the proposed project.

On-site truck idling was estimated to occur as trucks wait to park or maneuver through the facility. Although the proposed uses are required to comply with CARB's idling limit of 5 minutes, SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling, which takes into account on-site idling that occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc. As such, this analysis estimated truck idling at 15 minutes, consistent with SCAQMD's recommendation.

The SCAQMD recommends using a 10 in one million is used as the cancer risk threshold. A risk level of 10 in one million implies a likelihood that up to 10 people, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time.

Residential: The residential land uses with the greatest potential exposure to Project DPM source emissions are those along the primary truck routs that would be used for Project construction and Project operations. Thus, closest sensitive receptors potentially impacted by Project DPM source emissions would be homes at the southwest corner of Telegraph Road and Alburtis Avenue, approximately 1,300 feet west of the project site. At this location, the maximum incremental cancer risk attributable to Project DPM source emissions is calculated at 0.68 in one million, which is less than the SCAQMD threshold of 10 in one million. Additionally, non-cancer risks were calculated to be 0.0002, which would not exceed the applicable threshold of 1.0 (Urban 2019b). As such, the Project would not cause a significant human health or cancer risk to nearby residences, and impacts would be less than significant.

Workers: The workers with the greatest potential exposure to Project DPM source emissions are located approximately 65 feet south of the project site at existing industrial land uses. At the maximally exposed worker (MEIW), the maximum incremental cancer risk impact at this location is 0.53 in one million which is less than the threshold of 10 in one million. Also, the non-cancer risks were calculated to be 0.002, which would not exceed the applicable threshold of 1.0 (Urban 2019b). As such, the project would not cause a significant human health or cancer risk to nearby workers, and impacts would be less than significant.

School Children: The school site with the greatest potential exposure to Project DPM source emissions is Lake Center Junior High School, located approximately 0.5 mile south of the project site. This school is anticipated to have the greatest potential exposure to DPM emissions due to its location near the project site, truck travel patterns, and meteorological conditions. At the maximally exposed individual school child (MEISC), the maximum incremental cancer risk impact would be 0.10 in one million which is less than the threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be 0.0002, which would not exceed the applicable threshold of 1.0 (Urban 2019b). As such, the Project would not cause a significant human health or cancer risk to any school children, and impacts would be less than significant.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less Than Significant Impact. The proposed project would not generate other emissions, not described previously. Also, typical land uses generally associated with odor complaints includes agricultural uses (livestock and farming), wastewater treatment plants, food processing plants,

chemical plants, composting operations, refineries, landfills, dairies, and fiberglass molding facilities.

The project site is zoned ML (Limited Manufacturing) which does not allow land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the City's solid waste regulations. The proposed project would also be required to comply with SCAQMD Rule 402 (included as PPP AQ-3) to prevent odor nuisances on sensitive land uses. Based on the potential future use of the site as various limited manufacturing businesses, and with compliance with SCAQMD Rule 402, impacts related to odors would be less than significant.

Existing Plans, Programs, or Policies

PPP AQ-1: The project is required to comply with the provisions of South Coast Air Quality Management District (SCAQMD) Rule 403, which includes the following:

- All clearing, grading, earth-moving, or excavation activities shall cease when winds exceed 25 mph per SCAQMD guidelines in order to limit fugitive dust emissions.
- The contractor shall ensure that all disturbed unpaved roads and disturbed areas within the project are watered, with complete coverage of disturbed areas, at least 3 times daily during dry weather; preferably in the mid-morning, afternoon, and after work is done for the day.
- The contractor shall ensure that traffic speeds on unpaved roads and project site areas are reduced to 15 miles per hour or less.

PPP AQ-2: The project is required to comply with the provisions of South Coast Air Quality Management District Rule (SCAQMD) Rule 1113. Only "Low-Volatile Organic Compounds" paints (no more than 50 gram/liter of VOC) and/or High Pressure Low Volume (HPLV) applications shall be used.

PPP AQ-3: The project is required to comply with the provisions of South Coast Air Quality Management District (SCAQMD) Rule 402. The project shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

Mitigation Measures

No mitigation measures related to air quality are required.

Sources

Air Quality Impact Analysis, prepared by Urban Crossroads, 2019 (Urban 2019a) (Appendix A).

Mobile Source Health Risk Assessment, prepared by Urban Crossroads, 2019 (Urban 2019b) (Appendix B).

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
4. BIOLOGICAL RESOURCES. Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?	☐	☐	☐	☒
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☒	☐	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☐	☒
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

No Impact. The project site is developed with an existing business park consisting of 7 buildings surrounded by paved parking lots and landscaping. A small strip of land between the railroad tracks and the parking lot contains exposed soil with areas of grass, weeds, trees, and debris. In addition, the project site is surrounded by similar developed business park uses with paved parking

and ornamental landscaping. No candidate, sensitive, or special status species (or associated habitats) exist on the site or adjacent area.

The project would redevelop the site and provide new landscaping that would include a variety of ornamental trees, shrubs, and groundcover. As no sensitive species or habitat exists onsite, implementation of the project would not result in an adverse effect, either directly or through habitat modifications, on any sensitive species, and impacts would not occur.

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or US Fish and Wildlife Service?

No Impact. Riparian habitats occur along the banks of rivers, streams, or wetland areas. Sensitive natural communities are natural communities that are considered rare in the region by regulatory agencies or are known to provide habitat for sensitive animal or plant species. As described in the previous response, the project site is within an urban area, developed, and does not contain any natural habitats, including riparian habitat or sensitive natural community. Additionally, the project site is bound by developed areas that include buildings, pavement, roadways, railroad tracks, and small areas of ornamental landscaping that do not contain sensitive natural habitat areas. Thus, no impacts related to riparian habitat or other sensitive natural communities identified in local or regional plans would result from project implementation.

c) Have a substantial adverse effect on state or federally protected wetlands (including but not limited to, marsh, vernal, pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No Impact. Wetlands are defined under the federal Clean Water Act as land that is flooded or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that normally does support, a prevalence of vegetation adapted to life in saturated soils. Wetlands include areas such as swamps, marshes, and bogs. The project site and adjacent areas are located within a developed urban area and do not contain natural wetlands. Therefore, the project would not result in impacts to wetlands.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Less than Significant with Mitigation Incorporated. Wildlife corridors are areas where wildlife movement is concentrated due to natural or anthropogenic constraints and corridors provide access to resources such as food, water, and shelter. Animals use these corridors to move between different habitats and provide avenues for wildlife dispersal, migration, and contact between other populations. The project site does not support conditions of migratory wildlife corridors or linkages. The project site is completely developed and surrounded by roadways and rail lines. The site and surrounding areas do not provide function for wildlife movement. Additionally, the surrounding area is developed and urban. There are no rivers, creeks, or open drainages near the site that could function as a wildlife corridor. Thus, implementation of the project would not result in impacts related to wildlife movement or wildlife corridors.

However, the project site contains existing ornamental trees that could be used for nesting by common bird species that are protected by the federal Migratory Bird Treaty Act (MBTA) and the

California Fish and Game Code Sections 3503.5, 3511, and 3515 during the avian nesting and breeding season that occurs between February 1 and September 15. The provisions of the MBTA prohibits disturbing or destroying active nests. Therefore, Mitigation Measure BIO-1 has been included to require that if commencement of demolition, construction, or vegetation clearing occurs between February 1 and September 15, a qualified biologist shall conduct a nesting bird survey no more than 3 days prior to commencement of activities to confirm the absence of nesting birds. With implementation of Mitigation Measure BIO-1, potential impacts to nesting birds would be less than significant.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

No Impact. There are no local biological related policies or ordinances, such as a tree preservation policy or ordinance that is applicable to the project. Trees in the public right-of-way in the City are protected under the City's Municipal Code Sections 96.130 through 96.140, which regulates the planting, maintenance, and removal of trees in public locations in the City. The project would install new 24-inch and 36-inch box trees along Pioneer Boulevard, which would be new public street trees. Installation of the trees would be completed in compliance with the City's requirements, as included by PPP BIO-1. Therefore, implementation of the project would not conflict with local polices or ordinances protecting trees and no impact would occur. No mitigation measures are required.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No Impact. The project site is developed and in an urban area. The project site does not contain any natural lands that are subject to an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. Therefore, the project would not result in impacts to biological habitat plans. No mitigation measures are required.

Existing Plans, Programs, or Policies

PPP BIO-1: Street Trees. Installation of street trees shall occur in compliance with the City of Santa Fe Springs Municipal Code Chapters 96.130 through 96.140, also known as the "Tree Ordinance".

Mitigation Measures

Mitigation Measure BIO-1: Migratory Bird Treaty Act. Prior to commencement of grading activities, the City Building Department, shall verify that in the event that vegetation and tree removal activities occur within the active breeding season for birds (February 1–September 15), the project applicant (or their Construction Contractor) shall retain a qualified biologist (meaning a professional biologist that is familiar with local birds and their nesting behaviors) to conduct a nesting bird survey no more than 3 days prior to commencement of construction activities.

The nesting survey shall include the project site and areas immediately adjacent to the site that could potentially be affected by project-related construction activities, such as noise, human activity, and dust, etc. If active nesting of birds is observed within 100 feet of the designated construction area prior to construction, the qualified biologist shall establish an appropriate buffer around the active nests (e.g., as much as 500 feet for raptors and 300 feet for non-raptors [subject to the

recommendations of the qualified biologist]), and the buffer areas shall be avoided until the nests are no longer occupied and the juvenile birds can survive independently from the nests.

Sources

City of Santa Fe Springs, Municipal Code, Chapters 96.130 through Chapter 96.140, Street Trees. Available at: http://library.amlegal.com/nxt/gateway.dll/California/santa/titleixgeneralregulations/chapter96streetsandsidewalks?f=templates$fn=default.htm$3.0$vid=amlegal:santafesprings_ca$anc=JD_Chapter96

U.S. Fish and Wildlife Service Migratory Bird Treaty Act. Available at: https://www.fws.gov/birds/policies-and-regulations/laws-legislations/migratory-bird-treatyact.php

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
5. CULTURAL RESOURCES. Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource pursuant to in § 15064.5?	☐	☐	☐	☒
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☐	☒	☐	☐
c) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☒	☐

a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?

No Impact. According to the *State CEQA Guidelines*, a historical resource is defined as something that meets one or more of the following criteria: (1) listed in, or determined eligible for listing in, the California Register of Historical Resources; (2) listed in a local register of historical resources as defined in Public Resources Code (PRC) Section 5020.1(k); (3) identified as significant in a historical resources survey meeting the requirements of PRC Section 5024.1(g); or (4) determined to be a historical resource by the project's Lead Agency.

The California Register of Historical Resources defines a "historical resource" as a resource that meets one or more of the following criteria: (1) associated with events that have made a significant contribution to the broad patterns or local or regional history of the cultural heritage of California or the United States; (2) associated with the lives of persons important to local, California, or national history; (3) embodies the distinctive characteristics of a type, period, region, or method of construction or represents the work of a master or possesses high artistic values; or (4) has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

The Phase I Environmental Site Assessment (ESA) prepared for the project site, includes aerial photographs describing the transition of the site from an oil field to existing use. The Phase I ESA described that the existing buildings on the site were constructed in 1977 (HMC 2019a). Thus, the buildings onsite were constructed less than 50 years ago and are modern buildings. In addition, the project site is not listed on any register of resources and does not meet the CEQA criteria related to a historical resource (Dice and Burke 2018). Therefore, the project site does not contain any historical resources, and the project would not result in impacts to historical resources.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

Less than Significant Impact with Mitigation Incorporated. The project site has been disturbed from previous development activities that include oil production fields, agriculture, and industrial

uses. Project construction would include removal and re-compaction to a minimum depth of 8 feet below existing grade or 3 feet beneath the base of the foundations, whichever is deeper. The excavation is possible to encroach into native soils that have not been previously disturbed and could contain archaeological resources. As a result, Mitigation Measure CUL-1 has been included to provide procedures to be followed in the event that potential archaeological resources are discovered during grading, excavation, or construction activities. Mitigation Measure CUL-1 requires that work in the vicinity of a find be halted until the find can be assessed for significance by a qualified archaeologist to determine the appropriate treatment and documentation of the discovery (California Code of Regulations [CCR], Title 14, Chapter 3, Section 15064.5(f). Mitigation Measure CUL-1 would reduce potential impacts to undiscovered archaeological resources to a less than significant level.

c) Disturb any human remains, including those interred outside of formal cemeteries?

Less than Significant Impact. The project site has been previously disturbed, as described above, and has not been previously used as a cemetery. It is not anticipated that implementation of the proposed project would result in the disturbance of human remains. Existing regulation under the California Health and Safety Code, included as PPP CUL-1, outlines the procedures to undertake if human remains are found on the project site. Compliance with existing regulations would ensure impacts related to potential disturbance of human remains are less than significant.

Existing Plans, Programs, or Policies

PPP CUL-1: Human Remains. Should human remains be discovered during project construction, the project will be required to comply with State Health and Safety Code Section 7050.5, which states that no further disturbance may occur in the vicinity of the body until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission, which will determine the identity of and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD must complete the inspection within 48 hours of notification by the NAHC.

Mitigation Measures

Mitigation Measure CUL-1: Inadvertent Discoveries. Prior to commencement of grading activities, the City of Santa Fe Springs Building Department shall verify that all project grading and construction plans and specifications state that in the event that potential archaeological resources are discovered during excavation, grading, or construction activities, work shall cease within 50 feet of the find until a qualified archaeologist from the City or County List of Qualified Archaeologists has evaluated the find to determine whether the find constitutes a "unique archaeological resource," as defined in Section 21083.2(g) of the California Public Resources Code. Any resources identified shall be treated in accordance with California Public Resources Code Section 21083.2(g). If the discovered resource(s) appears Native American in origin, a Native American Monitor shall be contacted to evaluate any potential tribal cultural resource(s) and shall have the opportunity to consult on appropriate treatment and curation of these resources.

Sources

California Public Resources Code Section 21084.1

City of Santa Fe Springs Dice and Burke Industrial Development MND, Section 3 Environmental Analysis, Page 52 (Dice and Burke 2018). Accessed: https://www.santafesprings.org/civicax/filebank/blobdload.aspx?t=38065.18&BlobID=12134

Governor's Office of Planning and Research, *State CEQA Guidelines*, Section 15064.5(a).

Phase I Environmental Site Assessment, prepared by Hazard Management Consulting, Inc. (HMC 2019a) (Appendix G).

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
6. ENERGY. Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☒	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☒

The discussion below is based on the Energy Tables, prepared by Urban Crossroads, 2019 (Urban 2019c) (Appendix C).

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less Than Significant Impact.

Construction

During construction of the proposed project, energy would be consumed in three general forms:

1. Petroleum-based fuels used to power off-road construction vehicles and equipment on the project sites, construction worker travel to and from the project sites, as well as delivery truck trips;
2. Electricity associated with providing temporary power for lighting and electric equipment; and
3. Energy used in the production of construction materials, such as asphalt, steel, concrete, pipes, and manufactured or processed materials such as lumber and glass.

Construction activities related to the proposed building and the associated infrastructure would not be expected to result in demand for fuel greater on a per-unit-of-development basis than other development projects in southern California. In addition, the extent of construction activities that would occur are limited to an approximate 14-month period, and the demand for construction-related electricity and fuels would be limited to that time frame. The Energy Tables (included as Appendix C) details that the total project construction electricity usage over the estimated 14-month construction period would be approximately 66,388 kWh, which is summarized in Table E-1.

Table E-1: Estimated Construction Electricity Usage

Land Use	Proposed Building Square Footage (1,000 SF)	Construction Duration (months)	Electricity Usage (kWh)
Light Industrial	163.518	14	66,388
Total Construction Electricity Usage (kWh)			**66,388**

Source: Urban Crossroads, 2019c.

Also, as shown in Table E-2, construction of the proposed project is estimated to result in the need for 42,513 gallons of diesel fuel.

Table E-2: Estimated Construction Fuel Consumption

Activity/Duration	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption (gal. diesel fuel)
Demolition (20 days)	Concrete/Industrial Saws	81	1	8	0.73	473	511
	Excavators	158	3	8	0.38	1,441	1,558
	Rubber Tired Dozers	247	2	8	0.40	1,581	1,709
Site Preparation (10 days)	Rubber Tired Dozers	247	3	8	0.40	2,371	1,282
	Tractors/Loaders/Backhoes	97	4	8	0.37	1,148	621
Grading (30 days)	Excavators	158	1	8	0.38	480	519
	Graders	187	1	8	0.41	613	663
	Rubber Tired Dozers	247	1	8	0.40	790	854
	Tractors/Loaders/Backhoes	97	3	8	0.37	861	931
Building Construction (230 days)	Cranes	231	1	8	0.29	536	6,663
	Forklifts	89	3	8	0.20	427	5,311
	Generator Sets	84	1	8	0.74	497	6,182
	Tractors/Loaders/Backhoes	97	3	8	0.37	861	10,709
	Welders	46	1	8	0.45	166	2,059
Paving (20 days)	Pavers	130	2	8	0.42	874	944
	Paving Equipment	132	2	8	0.36	760	822
	Rollers	80	2	8	0.38	488	526
Architectural Coating (40 days)	Air Compressors	78	1	8	0.48	300	648
Total Construction Fuel Demand							**42,513**

Source: Urban Crossroads, 2019c.

Table E-3 shows that construction workers would use approximately 17,992 gallons of fuel to travel to and from the project site. Tables E-4 and E-5 show that approximately 5,330 gallons of fuel would be used by medium high duty trucks, and 13,437 gallons of fuel would be used for hauling by heavy high duty trucks during construction of the proposed project.

Table E-3: Estimated Construction Worker Fuel Consumption

Construction Activity	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Demolition (20 days)	15	14.7	4,410	30.65	144
Site Preparation (10 days)	18	14.7	2,646	30.65	86
Grading (20 days)	15	14.7	4,410	30.65	144
Building Construction (230 days)	153	14.7	517,293	30.65	16,880
Paving (20 days)	15	14.7	4,410	30.65	144
Architectural Coating (40 days)	31	14.7	18,228	30.65	595
Total Construction Worker Fuel Consumption					**17,992**

Source: Urban Crossroads, 2019c.

Table E-4: Estimated Construction Vendor Fuel Consumption (Medium High Duty Trucks)

Activity/Duration	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Building Construction (230 days)	30	6.9	47,610	8.93	5,330

Source: Urban Crossroads, 2019c.

Table E-5: Estimated Construction Hauling Fuel Consumption (Heavy High Duty Trucks)

Construction Activity	Vendor/ Hauling Trips/ Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Building Construction (230 days)	30	6.9	47,610	6.38	7,464
Demolition (20 days)	717	20	14,340	6.38	2,248
Grading (20 days)	1,188	20	23,760	6.38	3,725
Total Construction Hauling Fuel Consumption					**13,437**

Source: Urban Crossroads, 2019c.

In addition, construction contractors are required to demonstrate compliance with applicable California Air Resources Board (CARB) regulations governing the accelerated retrofitting, repowering, or replacement of heavy-duty diesel on- and off-road equipment. In addition, compliance with existing CARB idling restrictions and the use of newer engines and equipment would reduce fuel combustion and energy consumption. Overall, construction activities would require limited energy consumption, would comply with all existing regulations, and would therefore not be expected to use large amounts of energy or fuel in a wasteful manner. Thus, impacts related to construction energy usage would be less than significant.

Operation

Once operational, the project would generate demand for electricity, natural gas, as well as gasoline for motor vehicle trips. Operational use of energy includes the heating, cooling, and

lighting of the building, water heating, operation of electrical systems and plug-in appliances, parking lot and outdoor lighting, and the transport of electricity, natural gas, and water to the areas where they would be consumed. This use of energy is typical for urban development, and no operational activities or land uses would occur that would result in extraordinary energy consumption.

As detailed in Table E-6, operation of the proposed project is estimated to result in the annual use of 437,667 gallons of fuel. In addition, the project would adhere to CCR Title 13, Motor Vehicles, section 2449(d)(3) Idling, that limits idling times to no more than 5 minutes, which would preclude unnecessary and wasteful consumption of fuel due to unproductive idling of trucks.

Table E-6: Estimated Annual Operational Automobile Fuel Consumption

Vehicle Type	Annual Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
Light Duty Autos	2,247,531	30.65	73,338
Light Duty Trucks 1	176,856	25.95	6,815
Light Duty Trucks 2	821,839	24.03	34,203
Medium Duty Trucks	492,804	19.58	25,170
Light Heavy Duty Trucks	942,843	13.26	71,118
Medium Heavy Duty Trucks	464,103	8.93	51,954
Heavy Heavy Duty Trucks	1,116,724	6.38	175,069
Total (All Vehicles)	**6,262,701**	**--**	**437,667**

Source: Urban Crossroads, 2019c.
1 Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.
2 Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

In addition, Table E-7 details that operation of the proposed project would use approximately 2,290,070 thousand British thermal units (kBTU) per year of natural gas, and approximately 1,561,048 kilowatt-hour (kWh) per year of electricity for operation.

Table E-7: Estimated Annual Natural Gas and Electricity Consumption

Natural Gas Demand	kBTU/year
Light Industrial	2,290,070
Total Natural Gas Demand	**2,290,070**
Electricity Demand	**kWh/year**
Light Industrial	1,552,600
Parking Lot	8,448
Total Electricity Demand	**1,561,048**

Source: Urban Crossroads, 2019c.

The proposed project would be required to meet the current Title 24 energy efficiency standards (as provided in Chapter 150.001 of the City's Municipal Code and included as PPP ENG-1). Thus, operation of the project would not use large amounts of energy or fuel in a wasteful manner, and impacts would be less than significant.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

No Impact. The State of California has established a comprehensive framework for the use of efficient energy. This occurs through the implementation of the Clean Energy and Pollution Reduction Act of 2015 (SB 350), Title 24 Energy Efficiency Standards, and the California Green (CalGreen) Building Standards (included as PPP ENG-1). The proposed project would comply with existing

regulations as ensured through the City's plan check and permitting process. Thus, construction and operation of the proposed project would not conflict with or obstruct State or local plans for energy efficiency or renewable energy.

Existing Plans, Programs, or Policies

PPP ENG-1: CalGreen Compliance. The project is required to comply with the CalGreen Building Code as included in the City's Municipal Code (Chapter 150.001) to ensure efficient use of energy. CalGreen specifications are required to be incorporated into building plans as a condition of building permit approval.

Mitigation Measures

No mitigation measures related to energy are required.

Sources

Urban Crossroads, Pioneer Boulevard Development Energy Tables, 2019 (Urban 2019c) (Appendix C).

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
7. GEOLOGY AND SOILS. Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42?	☐	☐	☐	☒
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☐	☒
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☒	☐	☐

The discussion below is based on the Preliminary Geotechnical Evaluation and Design Recommendations, prepared by LGC Geotechnical, Inc., 2019 (LGC 2019) (Appendix D).

a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?

No Impact. The project site is not located within a designated Alquist-Priolo Earthquake Fault Zone and no faults were identified on the site (LGC 2019). The closet known active faults are associated with the Whittier section of the Elsinore Fault Zone, located approximately 6.2 miles northeast of the project site; the East Montebello Fault Zone, approximately 6.7 miles north of the project site; the Unnamed West Coyote Hills Fault, approximately 7.4 miles east of the project site; and the Newport Inglewood Fault Zone, approximately 10.7 miles southwest of the project site. Therefore, the project would not directly or indirectly cause potential risk of loss, injury, or death involving the rupture of a known earthquake fault. No impact would occur.

ii. Strong seismic ground shaking?

Less than Significant Impact. The project site is located within a seismically active region of Southern California. As mentioned previously, the Whittier section of the Elsinore Fault Zone is located approximately 6.2 miles northeast of the project site (LGC 2019). The amount of motion expected at the project site can vary from none to forceful depending upon the distance to the fault and the magnitude of the earthquake. Greater movement can be expected at sites located closer to an earthquake epicenter, that consists of poorly consolidated material such as alluvium, and in response to an earthquake of great magnitude.

Structures built in the City of Santa Fe Springs are required to be built in compliance with CBC, which regulates all building and construction projects within the City and implements a minimum standard for building design and construction that includes specific requirements for seismic safety, excavation, foundations, retaining walls, and site demolition. Compliance with the CBC would include the incorporation of: 1) seismic safety features to minimize the potential for significant effects as a result of earthquakes; 2) proper building footings and foundations; and 3) construction of the building structures so that it would withstand the effects of strong ground shaking. Implementation of CBC standards would be verified by the City during the plan check and permitting process. Because the proposed project would be constructed in compliance with the CBC, the proposed project would result in a less than significant impact related to strong seismic ground shaking.

iii. Seismic-related ground failure, including liquefaction?

Less than Significant Impact. Soil liquefaction is a phenomenon in which saturated, cohesionless soils layers, located within approximately 50 feet of the ground surface, lose strength due to cyclic pore water pressure generation from seismic shaking or other large cyclic loading. During the loss of stress, the soil acquires "mobility" sufficient to permit both horizontal and vertical movements. Soil properties and soil conditions such as type, age, texture, color, and consistency, along with historical depths to ground water are used to identify, characterize, and correlate liquefaction susceptible soils.

According to the Preliminary Geotechnical Evaluation, the project site is located within a liquefaction hazard zone (LGC 2019). Site soils, in general, are dense and not susceptible to liquefaction, but isolated loose and medium dense sand layers are present and considered susceptible. Although,

groundwater was detected at an elevation of greater than 50 feet below existing grade, a historic high groundwater elevation of 10 feet below existing grade has been recorded (LGC 2019). The Geotechnical Evaluation describes that to reduce the potential effects of liquefaction construction of the project includes removal and re-compaction of onsite soils as detailed in the Project Description. In addition, the proposed project would be required to be constructed in compliance with the CBC and the City's Municipal Code, included as PPP GEO-1, which would be verified through the City's plan check and permitting process. With compliance with existing regulations, impacts related to seismically related ground failure and liquefaction would be less than significant.

iv. Landslides?

No Impact. Landslides and other slope failures are secondary seismic effects that occur during or soon after earthquakes. Areas that are most susceptible to earthquakes induced landslides are steep slopes underlain by loose, weak soils, and areas on or adjacent to existing landslide deposits.

The site is relatively flat with elevations ranging from approximately 127 to 129 feet above mean sea level (LGC 2019). There is an approximately 15 to 20-foot tall slope ascending up to the Southern Pacific railroad lines east of the project site (LGC 2019). As described above, the project site is located in a seismically active region subject to strong ground shaking. However, the Geotechnical Evaluation states that the site is not within an area identified to have a potential for seismic slope instability (LGC 2019). Therefore, the project would not cause potential substantial adverse effects related to slope instability or seismically induced landslides.

b) Result in soil erosion or the loss of topsoil?

Less than Significant Impact. Construction of the proposed project has the potential to contribute to soil erosion and the loss of topsoil. Excavations and grading activities that would be required for the project would expose and loosen topsoil, which could be eroded by wind or water.

The City's Municipal Code Chapter 52, Stormwater Management and Discharge Control, implements the requirements of the Los Angeles County Regional Water Quality Control Board (RWQCB) National Pollutant Discharge Elimination System (NPDES) Storm Water Permit Order No. R4-2012-0175, as amended, (MS4 Permit) establishes minimum stormwater management requirements and controls that are required to be implemented for construction activities for the project.

To reduce the potential for soil erosion and the loss of topsoil, a Stormwater Pollution Prevention Plan (SWPPP) is required by these City and RWQCB regulations to be developed by a QSD (Qualified SWPPP Developer), which would be implemented by PPP WQ-1. The SWPPP is required to address site-specific conditions related to specific grading and construction activities that could cause erosion and the loss of topsoil and provide erosion control BMPs to reduce or eliminate the erosion and loss of topsoil. Erosion control BMPs include use of: silt fencing, fiber rolls, or gravel bags, stabilized construction entrance/exit, hydroseeding, etc. With compliance with the City's Municipal Code stormwater management requirements, RWQCB SWPPP requirements, and installation of BMPs, which would be implemented by the City's project review by the Department of Public Works, construction impacts related to erosion and loss of topsoil would be less than significant.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or offsite landslide, lateral spreading, subsidence, liquefaction or collapse?

Less than Significant Impact. Landslides and other forms of mass wasting, including mud flows, debris flows, and soil slips, occur as soil moves downslope under the influence of gravity. Landslides are frequently triggered by intense rainfall or seismic shaking. As described in Response a) iv., the project site is located in a relatively flat developed urban area that does not contain or adjacent to large slopes, and the project would not generate large slopes. Therefore, impacts related to landslides would not occur.

Lateral spreading is a type of liquefaction-induced ground failure associated with the lateral displacement of surficial blocks of sediment resulting from liquefaction in a subsurface layer. Once liquefaction transforms the subsurface layer into a fluid mass, gravity plus the earthquake inertial forces may cause the mass to move downslope towards a free face (such as a river channel or an embankment). Lateral spreading may cause large horizontal displacements and such movement typically damages pipelines, utilities, bridges, and structures. According to the Geotechnical Evaluation, the project site has a low potential for lateral spreading, which would be reduced with implementation of the excavation and recompaction of onsite soils and compliance with the CBC. Thus, impacts related to lateral spreading would be less than significant.

Subsidence is a general lowering of the ground surface over a large area that is generally attributed to lowering of the ground water levels within a groundwater basin. Localized or focal subsidence or settlement of the ground can occur as a result of an earthquake motion in an area where groundwater in basin is lowered. As described previously, the depth of groundwater was detected at an elevation of greater than 50 feet below existing grade; however, a historic high groundwater elevation of 10 feet below existing grade has been recorded (LGC 2019). The project would not pump water from the project area, thus impacts related to subsidence would not occur from implementation of the project.

Also, as described in Response a) iii., the project site is within a potential liquefaction area. Therefore, construction would include removal and re-compaction of onsite soils in compliance with the CBC which would reduce the potential of liquefaction, settlement, and subsidence to a less than significant level. As described previously, the project would be required to be constructed in compliance with the CBC and the City's Municipal Code, which would be verified through the City's plan check and permitting process. Thus, potential impacts related to liquefaction, settlement, and subsidence would be less than significant.

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Less than Significant Impact. Expansive soils contain certain types of clay minerals that shrink or swell as the moisture content changes; the shrinking or swelling can shift, crack, or break structures built on such soils. Arid or semiarid areas with seasonal changes of soil moisture experience, such as southern California, have a higher potential of expansive soils than areas with higher rainfall and more constant soil moisture.

The Geotechnical Evaluation determined that the site soils are anticipated to have a "very low" to "low" expansion potential based on soils testing. In addition, as described in the previous responses, the project would be required to be constructed in compliance with the CBC and the City's Municipal Code, that require appropriate back fill, compaction of soils, and foundation design to ensure stable soils, which would be verified through the City's plan check and permitting process. Thus, impacts related to expansive soils would be less than significant.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

No Impact. No septic tanks or alternative wastewater disposal systems are proposed. The project would install onsite sewers that would connect to the existing infrastructure that is adjacent to the site. Therefore, no impacts related to the use of such facilities would occur from implementation of the project.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less than Significant with Mitigation Incorporated. Paleontological resources, or fossils, are the remains of ancient plants and animals that can provide scientifically significant information about the history of life on Earth. Paleontological "sensitivity" is defined as the potential for a geologic unit to produce scientifically significant fossils. This sensitivity is determined by rock type, past history of the rock unit in producing significant fossils, and fossil localities that are recorded from that unit. Paleontological sensitivity is assigned based on fossil data collected from the entire geologic unit, not just a specific site.

The site is located on a laterally extensive young alluvial fan deposits that are Holocene and late Pleistocene age sediments (LGC 2019). These sediments are sensitive for paleontological resources. As described previously, the project site has been disturbed from previous development activities that include oil production fields, agriculture, and industrial uses, which reduces the potential of existing resources onsite. However, project construction would involve the removal and re-compaction of soil onsite to a depth of at least 8 feet (LGC 2019), which may include native undisturbed soils. Therefore, Mitigation Measure PAL-1 has been included to provide procedures to be followed in the unlikely event that potential paleontological resources are discovered during grading or excavation activities. Mitigation Measure PAL-1 requires that work shall cease within 50 feet of a find until a qualified paleontologist has evaluated the find in accordance with federal and state regulations. Mitigation Measure PAL-1 would reduce potential impacts to undiscovered paleontological resources to a less than significant level.

Existing Plans, Programs, or Policies

PPP GEO-1: California Building Code. The project is required to comply with the California Building Code as included in the City's Municipal Code Section 150.001 to preclude significant adverse effects associated with seismic hazards. California Building Code related and geologist and/or civil engineer specifications for the project are required to be incorporated into grading plans and specifications as a condition of project approval.

PPP WQ-1: SWPPP. Prior to grading permit issuance, the project developer shall have a Stormwater Pollution Prevention Plan (SWPPP) prepared by a QSD (Qualified SWPPP Developer) in accordance with the City's Municipal Code Chapter 52 Stormwater Management and Discharge Control and the Los Angeles County RWQCB NPDES Storm Water Permit Order No. R4-2012-0175. The SWPPP shall incorporate all necessary Best Management Practices (BMPs) and other NPDES regulations to limit the potential of erosion and polluted runoff during construction activities. Project contractors shall be required to ensure compliance with the SWPPP and permit periodic inspection of the construction site by City of Santa Fe Springs staff or its designee to confirm compliance.

Mitigation Measures

Mitigation Measure PAL-1: Paleontological Resources. Prior to issuance of a grading permit, the City of Santa Fe Springs Building Department shall verify that all project grading and construction plans and specifications state that in the event that potential paleontological resources are discovered during excavation, grading, or construction activities, work shall cease within 50 feet of the find until a qualified paleontologist (i.e., a practicing paleontologist that is recognized in the paleontological community and is proficient in vertebrate paleontology) from the City or County List of Qualified Paleontologists has evaluated the find in accordance with federal and state regulations. Construction personnel shall not collect or move any paleontological materials and associated materials. If any fossil remains are discovered, the paleontologist shall make a recommendation if monitoring shall be required for the continuance of earth moving activities.

Sources

Preliminary Geotechnical Evaluation and Design Recommendations, prepared by LGC Geotechnical, Inc., 2019 (LGC 2019) (Appendix D).

California Geological Survey Earthquake Zones of Required Investigation Whittier Quadrangle. Accessed: http://gmw.conservation.ca.gov/SHP/EZRIM/Maps/WHITTIER_EZRIM.pdf

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
8. GREENHOUSE GAS EMISSIONS. Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

The discussion below is based on the Greenhouse Gas Analysis, prepared by Urban Crossroads, 2019 (Urban 2019d) (Appendix E).

Explanation

Constituent gases of the Earth's atmosphere, called atmospheric greenhouse gases (GHGs), play a critical role in the Earth's radiation amount by trapping infrared radiation from the Earth's surface, which otherwise would have escaped to space. Prominent greenhouse gases contributing to this process include carbon dioxide (CO_2), methane (CH_4), ozone (O_3), water vapor, nitrous oxide (N_2O), and chlorofluorocarbons (CFCs). This phenomenon, known as the Greenhouse Effect, is responsible for maintaining a habitable climate. Anthropogenic (caused or produced by humans) emissions of these greenhouse gases in excess of natural ambient concentrations are responsible for the enhancement of the Greenhouse Effect and have led to a trend of unnatural warming of the Earth's natural climate, known as global warming or climate change. Emissions of gases that induce global warming are attributable to human activities associated with industrial/manufacturing, agriculture, utilities, transportation, and residential land uses.

Section 15364.5 of the California Code of Regulations defines GHGs to include carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons and sulfur hexafluoride. Transportation is responsible for 37 percent of the state's greenhouse gas emissions, followed by electricity generation. Emissions of CO_2 and N_2O are byproducts of fossil fuel combustion. Methane, a potent greenhouse gas, results from off-gassing associated with agricultural practices and landfills. Sinks of CO_2, where CO_2 is stored outside of the atmosphere, include uptake by vegetation and dissolution into the ocean.

California has passed several bills and the Governor has signed at least three executive orders regarding greenhouse gases. GHG statues and executive orders (EO) include AB 32, SB 1368, EO S-03-05, EO S-20-06 and EO S-01-07. These regulations require the use of alternative energy, such as solar power. Solar projects produce electricity with no GHG emissions and assist in offsetting GHG emissions produced by fossil-fuel-fired power plants.

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less than Significant Impact. Global climate change (GCC) describes alterations in weather features (e.g., temperature, wind patterns, precipitation, and storms) that occur across the Earth as a whole. GCC is not confined to a particular project area and is generally accepted as the consequence of global industrialization over the last 200 years. A typical project, even a very large one, does not generate enough GHG emissions on its own to influence global climate change significantly; hence, the issue of global climate change is, by definition, a cumulative environmental impact.

The principal GHGs of concern contributing to the greenhouse effect are CO2, CH4, N2O, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. GHGs are produced by both direct and indirect emissions sources. Direct emissions include consumption of natural gas, heating and cooling of buildings, landscaping activities and other equipment used directly by land uses. Indirect emissions include the consumption of fossil fuels for vehicle trips, electricity generation, water usage, and solid waste disposal. The large majority of GHG emissions generated from residential projects are related to vehicle trips.

The City has not established local CEQA significance thresholds for GHG emissions; however, the SCAQMD has proposed interim numeric GHG significance thresholds that are based on capture of approximately 90 percent of emissions from development, which is 3,000 metric tons carbon dioxide equivalent (MTCO2e) per year (SCAQMD 2008). This approach is widely used by cities in the South Coast Air Basin, including the City of Santa Fe Springs. As such, this threshold is utilized herein to determine if GHG emissions from this project would be significant.

Construction

During construction, temporary sources of GHG emissions include construction equipment and workers' commutes to and from the site. The combustion of fossil-based fuels creates GHGs such as CO2, CH4, and N2O. As shown on Table GHG-1, the project has the potential to generate a total of approximately 27.16 MTCO2e per year from construction emissions amortized over 30 years per SCAQMD methodology.

Table GHG-1: Amortized Annual Construction Emissions

Year	Emissions (metric tons per year)			
	CO2	CH4	N20	Total CO2E
2020	436.87	0.07	0.00	438.57
2021	374.97	0.05	0.00	376.32
Total Annual Construction Emissions	811.84	0.12	0.00	814.89
Amortized Construction Emissions (MTCO2e)	**27.06**	**0.00**	**0.00**	**27.16**

Source: Urban Crossroads, 2019d

Operation

During operations, the project would generate long-term GHG emissions from vehicular trips; water, natural gas, and electricity consumption; and solid waste generation. Natural gas use results in the emission of 2 GHGs: CH4 (the major component of natural gas) and CO2 (from the combustion of natural gas). Electricity use can result in GHG production if the electricity is generated by combusting fossil fuel.

The project site is currently developed with 149,605 square feet of business park and 8,064 square feet of general office building uses. The estimated GHG emissions from the existing development are summarized in Table GHG-2, below.

Table GHG-2: Existing GHG Emissions

Emission Source	Existing Emissions (MT/year)			
	CO2	CH4	N20	Total CO2E
Area Source	3.91e-03	1.00e-05	0.00	4.17e-03
Energy Source	790.51	0.03	7.56e-03	793.53
Mobile Source	1,942.99	0.13	0.00	1,946.23
Waste	29.76	1.76	0.00	73.74
Water Usage	185.94	0.92	0.02	215.83
Total CO2E (All Sources)		**3,029.33**		

Source: Urban Crossroads, 2019d

The project would construct three buildings that would provide in 5,849gross square feet more space than currently exists onsite. Table GHG-3 shows the increase in operational GHG emissions that would result from operation of the additional building space. The large majority of GHG emissions generated from the industrial, manufacturing, warehousing/distribution uses on site are, and would continue to be, from truck trips. As shown in Table GHG-3, the project would generate an increase of approximately 1,986.98 MTCO2e per year, which is less than the SCAQMD threshold of 3,000 MTCO2e. Therefore, impacts would be less than significant.

Table GHG-3: Project GHG Emissions

Year	Emissions (metric tons per year)			
	CO2	CH4	N20	Total CO2E
Annual construction-related emissions amortized over 30 years	27.06	0.00	0.00	27.16
Area Source	0.02	4.00e-05	0.00	0.02
Energy Source	619.55	0.02	6.49e-03	622.05
Mobile Source (Passenger Car)	1,184.50	0.03	0.00	1,185.26
Mobile Source (Truck)	2,817.19	0.10	0.00	51.25
On-site Equipment	50.84	0.02	0.00	51.25
Waste	41.16	2.43	0.00	101.97
Total CO2e (All Sources)		**5,016.31**		
Existing Emissions		***-3,029.33***		
Net Emissions (Project – Emissions)		**1,986.98**		

Source: Urban Crossroads, 2019d

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less than Significant Impact. The project would not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. As described in the previous response, the project would not exceed thresholds related to GHG emissions. In addition, the project would comply with regulations imposed by the state and the SCAQMD that reduce GHG emissions, as described below:

- Global Warming Solutions Act of 2006 (AB 32) is applicable to the project because many of the GHG reduction measures outlined in AB 32 (e.g., low carbon fuel standard, advanced clean car standards, and cap-and-trade) have been adopted over the last 5 years and implementation activities are ongoing. The proposed building would not conflict with fuel and car standards or cap-and-trade.

- Pavley Fuel Efficiency Standards (AB 1493) establishes fuel efficiency ratings for new (model year 2009-2016) passenger cars and light trucks. The project would develop a new building that would not conflict with fuel efficiency standards for vehicles.
- Title 24 California Code of Regulations (Title 24) establishes energy efficiency requirements for new construction that address the energy efficiency of new (and altered) buildings. The project is required to comply with Title 24, which would be verified by the City during the plan check and permitting process.
- Title 17 California Code of Regulations (Low Carbon Fuel Standard [LCFS]) requires carbon content of fuel sold in California to be 10 percent less by 2020. Because the LCFS applies to any transportation fuel that is sold or supplied in California, all vehicles trips generated by the project would comply with LCFS.
- California Water Conservation in Landscaping Act of 2006 (AB 1881) provides requirements to ensure water efficient landscapes in new development and reduced water waste in existing landscapes. The project is required to comply with AB 1881 landscaping requirements, which would be verified by the City during the plan check and permitting process.
- Emissions from vehicles, which are a main source of operational GHG emissions, would be reduced through implementation of federal and state fuel and air quality emissions requirements that are implemented by CARB. In addition, as described in the previous response, the project would not result in an exceedance of an air quality standard.

The City currently does not have an adopted Climate Action Plan to reduce GHG emissions, and as described in the previous response, emissions would not exceed the thresholds. Therefore, implementation of the project would not conflict with any applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

Existing Plans, Programs, or Policies

See (b) above for applicable regulations.

Mitigation Measures

No mitigation measures related to greenhouse gas emissions are required.

Sources

South Coast Air Quality Management District Draft Guidance Document – Interim CEQA Greenhouse Gas Significance Thresholds (SCAQMD 2008). Accessed: http://www.aqmd.gov/docs/defaultsource/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significancethresholds/ghgattachmente.pdf

Greenhouse Gas Analysis, prepared by Urban Crossroads, 2019 (Urban 2019d) (Appendix E).

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
9. HAZARDS AND HAZARDOUS MATERIALS. Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☒	☐	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☒	☐
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☐	☒
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☐	☐	☐	☒

The discussion below is based on the Phase I Environmental Site Assessment, prepared by Hazard Management Consulting, Inc. (HMC 2019a) (Appendix G); Phase II Environmental Site Assessment, prepared by Hazard Management Consulting, Inc. (HMC 2019b) (Appendix H); and a Technical Memorandum on Abandoned Oil Wells on the Pioneer Boulevard Development Project, prepared by WZI, Inc., 2019 (WZI 2019) (Appendix I).

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less than Significant Impact. A hazardous material is defined as any material that, due to its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to environment if released into the environment. Hazardous materials include, but are not limited to, hazardous substances, hazardous wastes, and any material that regulatory agencies have a reasonable basis for believing would be injuries to the health and safety of persons or harmful to the environment if released into the home, workplace, or environment. Hazardous wastes require special handling and disposal because of their potential to damage public health and the environment.

Construction
The proposed construction activities would involve the transport, use, and disposal of hazardous materials such as paints, solvents, oils, grease, and caulking. In addition, hazardous materials would be needed for fueling and servicing construction equipment on the site. These types of materials are not acutely hazardous, and all storage, handling, use, and disposal of these materials are regulated by federal and state requirements, which the project construction activities are required to strictly adhere to. These regulations include: the federal Occupational Safety and Health Act and Hazardous Materials Transportation Act; Title 8 of the California Code of Regulations (CalOSHA), and the state Unified Hazardous Waste and Hazardous Materials Management Regulatory Program. As a result, routine transport and use of hazardous materials during construction would be less than significant.

Operation
Potential future operations of the proposed project would include a combination of office, manufacturing, warehouse and distribution, assembly, and food production and distribution uses (excluding meat or fish products, sauerkraut, vinegar, and the rendering or refining of fats and oils), which generally use limited hazardous materials, such as: cleaning agents, paints, pesticides, batteries, and aerosol cans. Normal routine use of these products would not result in a significant hazard to residents or workers in the vicinity of the project.

In addition, should any future business that occupies one of the proposed buildings handle acutely hazardous materials (as defined in Section 25500 of California Health and Safety Code, Division 20, Chapter 6.95), the business would require a permit from the Los Angeles County Health Hazardous Materials Division. If the volume of hazardous materials handled or stored at the site is greater than 500 pounds of solid, 55 gallons of liquid, or 200 cubic feet of gaseous hazardous material, it is required by AB 2185, to also file a Hazardous Materials Business Emergency Plan with the County Health Hazardous Materials Division. A Hazardous Materials Business Emergency Plan is a written set of procedures and information created to help minimize the effects and extent of a release or threatened release of a hazardous material. The intent of the Hazardous Materials Business Emergency Plan is to satisfy federal and state right-to-know laws and to provide detailed information for use by emergency responders. Such businesses are also required to comply with California's Hazardous Materials Release Response Plans and Inventory Law, which requires immediate reporting to the County Hazardous Materials Division and the State Office of Emergency Services regarding any release or threatened release of a hazardous material, regardless of the amount handled by the business.

Therefore, if future businesses that use or store hazardous materials occupy the proposed buildings, the business owners and operators would be required to comply with all applicable federal, state, and local regulations, as permitted by the County Health Hazardous Materials Division to ensure proper use, storage, and disposal of hazardous substances. Overall, operation of the proposed

project would result in a less than significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less than Significant Impact with Mitigation Incorporated.

Construction

Contaminated Soils. The Phase I Environmental Site Assessment (Phase I ESA) describes that the project site was a former oilfield that contained seven oil wells, oil field sumps, and related piping until the 1970s when the site was redeveloped into the existing conditions. Previous investigations were conducted at the project site to assess the presence of petroleum hydrocarbons and related materials and were submitted to the City of Santa Fe Springs Fire Department. Detectable concentrations of hydrocarbons were found, which the City determined were acceptable to remain in place under a commercial land scenario. A letter of no further action was issued by DTSC for the project site but has not yet been presented to the City. Due to these historic uses of the site and amount of time that has transpired since the previous investigations, a new soil and soil gas investigation was completed, which documented the continued concentrations of petroleum hydrocarbons and methane gas present in the soil onsite (HMC 2019a). Several of the soil samples indicated elevated concentrations of petroleum hydrocarbons and odorous soil in sporadic areas of the site, which are typical of oil field locations. If the applicant cannot present the prior no further action letter, in order to reduce potential risks to future industrial/commercial uses from petroleum hydrocarbons in soil vapor and to ensure concentrations are at acceptable levels, mitigation and administrative measures, as well as long-term Operation and Maintenance (O&M) activities would be required by DTSC (or other oversight agency with jurisdiction) and the City. Prior to grading, the DTSC would require preparation of a Soil Management Plan (SMP) to provide guidance concerning the proper monitoring, handling, segregation, stockpiling, dust control, testing, transport and disposal of potentially impacted soils, which may be encountered during development activities. The DTSC may also require recording of a land use covenant (LUC) as an institutional control to require that any changes in conditions (i.e., modifications of building slabs, new construction, etc.) be communicated to the DTSC, and that mitigation measures and subsurface conditions be communicated to future buyers and occupants.

The details of the items described above will be presented to DTSC in a Removal Action Workplan (RAW). DTSC will review and provide comments to the RAW and once these are satisfactorily addressed, the RAW will be considered Draft Final. The Draft Final RAW will be circulated for a 30-day public review and comment period. After the public comment period ends and any public questions and concerns are addressed, the RAW will be considered Final. The Final RAW can then be implemented by the developer once City permits and entitlements are secured. During grading and earthmoving activities, any potentially impacted soils handled per the protocols and procedures of the SMP will be reported and discussed with DTSC. Upon completion of soil removal and grading activities, a Removal Action Completion Report (RACR) will be submitted to the DTSC for review and approval. The RACR will certify that soil mitigation beneath the subject building(s) has(have) been implemented as per the requirements of the RAW. DTSC will review the RACR and upon approval, certify that the conditions of the RAW have been met. The project applicant/developer will be required to submit a copy of the Final RAW to the City prior to issuance of grading permits and the evidence of site certification per the RACR prior to issuance of building permits, per Mitigation Measure HAZ-1.

In addition, elevated concentrations of arsenic have been detected in sporadic locations throughout the site that appear to be from naturally occurring granitic lithology of Southern California soils (HMC 2019a). The concentrations found are below what was previously reported to the City of Santa Fe Springs Fire Department and allowed to remain in place. In response, the SMP required by Mitigation Measure HAZ-1 requires proper soil management and handling procedures. With implementation of Mitigation Measure HAZ-1 and SCAQMD Rules 1466 and 1166 (included as PPP HAZ-1 and PPP HAZ-2) impacts related to contaminated soils would be less than significant.

Methane Gas. Methane gas testing was also completed, which identified only low concentrations of methane (up to 0.4 percent by volume of ambient air or 4,000 ppm) at some testing locations (HMC 2019a). Because the site was previously used for oil production and is located within the City of Santa Fe Springs Methane Zone, the City Ordinance No. 955 requires new buildings to be constructed with a methane gas mitigation system (e.g. passive vapor barrier). In addition, Ordinance No. 955 requires an initial methane gas survey and quarterly monitoring for one year. Based on the results, annual monitoring may be required pursuant to Ordinance No. 955. With inclusion of the methane gas mitigation system and the required monitoring, pursuant to Ordinance No. 955, which is included as PPP HAZ-3, impacts related to methane gas would be less than significant.

Asbestos. Asbestos is a naturally occurring fibrous material that was used as a fireproofing and insulating agent in building construction before such uses were banned by the USEPA. The presence of asbestos can be found in materials such as ducting insulation, wallboard, shingles, ceiling tiles, floor tiles, insulation, plaster, floor backing, and many other building materials. Asbestos and asbestos-containing materials (ACMs) are both a hazardous air pollutant and a human health hazard. The risk to human health is from inhalation of airborne asbestos, which commonly occurs when ACMs are disturbed during such activities as demolition and renovation.

The Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 requires certain construction materials to be presumed to contain asbestos, for purposes of this regulation. All thermal system insulation), surfacing material, and asphalt/vinyl flooring that are present in a building constructed prior to 1981 and have not been appropriately tested are “presumed asbestos-containing material”.

The buildings within the project site were constructed prior to 1981 when asbestos containing materials were commonly used and the Phase I identified suspected asbestos containing material throughout the existing structures on the site.

As a result, asbestos abatement contractors must follow state regulations contained in California Code of Regulations Sections 1529, and 341.6 through 341.14 as implemented by SCAQMD Rule 1403 to ensure that asbestos removed during demolition of the existing buildings is transported and disposed of at an appropriate facility. The contractor and hauler of the material is required to file a Hazardous Waste Manifest which details the hauling of the material from the site and the disposal of it. Section 19827.5 of the California Health and Safety Code requires that local agencies not issue demolition permit until an applicant has demonstrated compliance with notification requirements under applicable federal regulations regarding hazardous air pollutants, including asbestos. These requirements are included as PPP HAZ-4 to ensure that the project applicant submits verification to the City that the appropriate activities related to asbestos have occurred, which would reduce the potential of impacts related to asbestos to a less than significant level.

Lead. Lead-based materials may also be located within existing structures on the project site. The lead exposure guidelines provided by the U.S. Department of Housing and Urban Development provide regulations related to the handling and disposal of lead-based products. Federal regulations to manage and control exposure to lead-based paint are described in Code of Federal Regulations Title 29, Section 1926.62, and state regulations related to lead are provided in the California Code of Regulations Title 8 Section 1532.1, as implemented by Cal-OSHA. These regulations cover the demolition, removal, cleanup, transportation, storage and disposal of lead-containing material. The regulations outline the permissible exposure limit, protective measures, monitoring and compliance to ensure the safety of construction workers exposed to lead-based materials. Cal/OSHA's Lead in Construction Standard requires project applicants to develop and implement a lead compliance plan when lead-based paint would be disturbed during construction or demolition activities. The plan must describe activities that could emit lead, methods for complying with the standard, safe work practices, and a plan to protect workers from exposure to lead during construction activities. In addition, Cal/OSHA requires 24-hour notification if more than 100 square feet of lead-based paint would be disturbed. These requirements are included as PPP HAZ-5 to ensure that the project applicant submits verification to the City that the appropriate activities related to lead have occurred, which would reduce the potential of impacts related to lead-based materials to a less than significant level.

Oil Well Abandonment. As discussed, the project site was a former oilfield that contained seven oil wells, oil field sumps, and related piping until the 1970s when the site was redeveloped into the existing conditions. Mitigation Measure HAZ-2 ensures that any unabandoned oil well(s) will be abandoned prior to development, per the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) for Construction Site Plan review. Documentation of compliance shall be in accordance with Ordinance 1104 and the provisions outlined in Chapter 117 of the Santa Fe Springs Municipal Code for approval. With implementation of Mitigation Measure HAZ-2, impacts related to oil well abandonment would be less than significant

Operation

As described above, the risks related to upset or accident conditions involving the release of hazardous materials into the environment would be adequately addressed through compliance with existing federal, state, and local regulations. Development of the proposed Project would result in various limited manufacturing and office uses that would use and store common hazardous materials such as paints, solvents, and cleaning products. Also, building mechanical systems and grounds and landscape maintenance could also use a variety of products formulated with hazardous materials, including fuels, cleaners, lubricants, adhesives, sealers, and pesticides/herbicides.

The environmental and health effects of different chemicals are unique to each chemical and depend on the extent to which an individual is exposed. The extent and exposure of individuals to hazardous materials would be limited by the relatively small quantities of these materials that would be stored, used, and handled. Additionally, any business or facility which uses, generates, processes, produces, packages, treats, stores, emits, discharges, or disposes of hazardous material (or waste) would require a hazardous materials handler permit from the Los Angeles County Health Hazardous Materials Division, as described previously.

Through existing City and County Health Hazardous Materials Division permitting and occupancy procedures, hazardous materials would be used and stored in accordance with applicable regulations and such uses would be required to comply with federal and state laws to reduce the potential consequences of hazardous materials accidents. In addition, a Water Quality Management Plan (WQMP) is required to be implemented for the Project (as further discussed in

Section 10, *Hydrology and Water Quality*, and included as PPP WQ-2). The BMPs that would be implemented as part of the WQMP would protect human health and the environment should any accidental spills or releases of hazardous materials occur during operation of the project.

As a result, implementation of the proposed project would not result in a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment, and operational impacts would be less than significant.

c) Emit hazardous emissions or handle hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less than Significant Impact. There are no existing or proposed schools within 0.25 mile of the project site. The following schools are near the project site: - Jersey Avenue Elementary School (0.35 mile); Lakeview Elementary School (0.44 mile); Rancho Santa Gertrudes Elementary School (0.48 mile); Santa Fe High School (0.51 mile).

Furthermore, construction and operation of the project would involve the use, storage and disposal of small amounts of hazardous materials on the project site. These hazardous materials would be limited and used and disposed of in compliance with federal, state, and local regulations, which would reduce the potential for accidental release into the environment near a school. The emissions that would be generated from construction and operation of the project were evaluated in the air quality analysis discussed above, and the emissions generated from the project would not cause or contribute to an exceedance of the federal or state air quality standards. Thus, the project would not emit hazardous or handle acutely hazardous materials, substances, or waste near a school, and impacts would be less than significant.

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

No Impact. According to the California Department of Toxic Substances Control EnviroStor listing, and the Phase I Environmental Site Assessment prepared for the site (HMC 2019a) the project site is not located on or nearby any hazardous material sites listed, pursuant to Government Code Section 65962.5. As a result, impacts related to hazards from being located on or adjacent to a hazardous materials site would not occur from implementation of the proposed project.

e) For a project within an airport land use plan, or where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

No Impact. The project site is not within two miles of an airport. The closest airport is the Fullerton Municipal Airport, which is 7.4 miles southeast of the project site. The project site is not located within any land use compatibility zone for the nearest airport, nor is it within an airport safety zone. Therefore, the project would not result in a safety hazard for people residing or working in the project areas, and no impacts would occur.

f) Impair implementation of an adopted emergency response plan or emergency evacuation plan?

Less than Significant Impact.

Construction

The proposed construction activities, including equipment and supply staging and storage, would occur within the project site and would not restrict access of emergency vehicles to the project site or adjacent areas. During construction of the project driveways, Pioneer Boulevard would remain open to ensure adequate emergency access to the project area and vicinity. Impacts related to interference with an adopted emergency response or evacuation plan during construction activities would be less than significant.

Operation

Operation of the proposed project would not result in a physical interference with an emergency response evacuation. Direct access to the project site would be provided from Pioneer Boulevard, which is adjacent to the project site. The project is also required to design and construct internal access and provide fire suppression facilities (e.g., hydrants and sprinklers) in conformance with the City Municipal Code and the Fire Department prior to approval to ensure adequate emergency access pursuant to the requirements in Section 503 of the California Fire Code (Title 24, California Code of Regulations, Part 9) and the Fire Code included per Municipal Code Chapter 93.01. As a result, the proposed project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan, and impacts would be less than significant.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

No Impact. The project site is located within an urbanized area and therefore not identified as a wildland fire hazard area, as defined by the CalFire Fire Hazard Severity Zone Maps (CalFire). Thus, the project would not result in impacts related to the exposure of people or structures to loss, injury, or death involving wildland fires.

Existing Plans, Programs, or Policies

PPP HAZ-1: SCAQMD Rule 1166, Volatile Organic Compounds. The project is required to comply with the provisions of South Coast Air Quality Management District Rule (SCAQMD) Rule 1166, which provides handling requirements to control the emission of Volatile Organic Compounds (VOC) from excavating, grading, handling and treating VOC contaminated soils. The requirements include segregating VOC contaminated stockpiles, spraying the stockpiles with water or vapor suppressant, cover stockpiles with plastic sheeting, and treat or remove contaminated soil from an excavation or grading site within 30 days from the time of excavation

PPP HAZ-2: SCAQMD Rule 1466, Soils with Toxic Air Contaminants. The project is required to comply with the provisions of South Coast Air Quality Management District Rule (SCAQMD) Rule 1466 related to fugitive dust emissions containing toxic air contaminants. Rule 1466 requires ambient monitoring of PM_{10} concentrations during earth moving activities, activities to minimize fugitive dust, segregate stabilize and cover contaminated stockpiles with plastic sheeting and label with "SCAQMD Rule 1466 – Control of Particulate Emissions from Soils with Toxic Air Contaminant(s) Applicable Soil".

PPP HAZ-3: Ordinance No. 955, Methane Gas. Pursuant to City Ordinance No. 955 the project shall install methane gas mitigation systems in the new building (e.g. ventilation system or a passive

barrier system) and quarterly methane gas monitoring shall be conducted for one year. If concentrations are below 25 percent of the Lower Explosive Limit (LEL) (i.e. 1.25 percent by volume of air or 12,500 ppm/v), during the first year, the system shall be required to be monitored on an annual basis.

PPP HAZ-4: SCAQMD Rule 1403, Asbestos. Prior to issuance of demolition permits, the project applicant shall submit verification to the City Building Department that an asbestos survey has been conducted at all existing buildings located on the project site. If asbestos is found, the project applicant shall follow all procedural requirements and regulations of South Coast Air Quality Management District Rule 1403. Rule 1403 regulations require that the following actions be taken: notification of SCAQMD prior to construction activity, asbestos removal in accordance with prescribed procedures, placement of collected asbestos in leak-tight containers or wrapping, and proper disposal.

PPP HAZ-5: Lead Based Paint. Prior to issuance of demolition permits, the project applicant shall submit verification to the City Building Department that a lead-based paint survey has been conducted at all existing buildings located on the project site. If lead-based paint is found, the project applicant shall follow all procedural requirements and regulations for proper removal and disposal of the lead-based paint. Cal-OSHA has established limits of exposure to lead contained in dusts and fumes. Specifically, CCR Title 8, Section 1532.1 provides for exposure limits, exposure monitoring, and respiratory protection, and mandates good working practices by workers exposed to lead.

PPP HAZ-6: Ordinance No. 1104. Criteria for Well Abandonment. The project shall comply with criteria related to abandonment of oil wells.

Mitigation Measures

Mitigation Measure HAZ-1: Petroleum Hydrocarbons and Arsenic. In order to reduce potential risks to future industrial/commercial uses from petroleum hydrocarbons in soil vapor and arsenic in soils that could be considered hazardous waste if disposed improperly, mitigation and administrative measures, as well as long-term Operation and Maintenance (O&M) activities, shall be required by DTSC (or other agency with regulatory oversight and jurisdiction) and the City of Santa Fe Springs through the preparation and approval of a Removal Action Workplan (RAW) (or equivalent plan and review process under other agency with regulatory oversight and jurisdiction) which will include:

1. **Preparation of a Soil Management Plan (SMP)** to provide guidance concerning the proper monitoring, handling, segregation, stockpiling, dust control, testing, transport and disposal of potentially impacted soils, which may be encountered during development activities and at a minimum shall ensure that:
    - The SMP shall be implemented during grading activities onsite to ensure that soils containing residual levels of hydrocarbons or arsenic are properly identified, monitored, and managed onsite, and include the following:
    - A certified hazardous waste hauler shall remove all potentially hazardous soils. In addition, sampling of soil shall be conducted during excavation to ensure that all petroleum hydrocarbon and arsenic impacted soils are removed, and that Environmental Screening Levels (ESLs) for non-residential uses are not exceeded.

Excavated materials shall be transported per California Hazardous Waste Regulations to a landfill permitted by the state to accept hazardous materials.

- Any subsurface materials exposed during construction activities that appear suspect of contamination, either from visual staining or suspect odors, shall require immediate cessation of excavation activities. Soils suspected of contamination shall be tested for potential contamination. If contamination is found to be present per the Department of Toxic Substances Control Screening Levels for industrial/commercial land use (DTSC-SLi) and the EPA Regional Screening Levels for industrial/commercial land use (EPA-RSLi), it shall be transported and disposed of per state regulations to an appropriately permitted landfill.
- The SMP shall include a Health and Safety Plan (HSP) addresses potential safety and health hazards and includes the requirements and procedures for employee protection; each contractor will be required to have their own HSP tailored to their particular trade that addresses the general project safety requirements. The HSP shall also outline proper soil handling procedures and health and safety requirements to minimize worker and public exposure to hazardous materials during construction.

2. **Recording of a land use covenant (LUC)** as an institutional control to require that any changes in conditions (i.e., modifications of building slabs, new construction, etc.) be communicated to the DTSC, and that mitigation measures and subsurface conditions be communicated to future buyers and occupants.

Prior to issuance of grading permits, the project applicant/developer shall submit the Final RAW, which includes the SMP, to the City. During grading and earthmoving activities, any potentially impacted soils handled per the protocols and procedures of the SMP will be reported to and discussed with DTSC.

Upon completion of soil removal and grading activities, the project applicant/developer shall obtain a Site Certification from DTSC through a *Removal Action Completion Report* (RACR) certifying that soil mitigation beneath the subject building(s) has(have) been implemented as per the requirements of the RAW. Evidence of site certification shall be provided to the City of Santa Fe Springs prior to issuance of building permits.

Concurrent with the development of the RAW, the developer will engage DTSC to negotiate the LUC and thereafter record it with the County of Los Angeles.

Mitigation Measure HAZ-2: Oil Well Abandonment. Prior to issuance of grading permits, the Property Owner/Developer shall submit site development plans to the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) for Construction Site Plan review. Property Owner/Developer shall implement any actions recommended by DOGGR, including but not limited to, well abandonment to current standards, venting, leak testing and setbacks. Documentation of compliance shall be in accordance with Ordinance 1104 and the provisions outlined in Chapter 117 of the Santa Fe Springs Municipal Code for approval.

Sources

CalFire Office of the State Fire Marshal. Fire Hazard Severity Zones Maps: State Responsibility Area. Available at: https://osfm.fire.ca.gov/divisions/wildfire-prevention-planning-engineering/wildland-hazards-building-codes/fire-hazard-severity-zones-maps/

Phase I Environmental Site Assessment, prepared by Hazard Management Consulting, Inc. (HMC 2019a) (Appendix G).

Phase II Environmental Site Assessment, prepared by Hazard Management Consulting, Inc. (HMC 2019b) (Appendix H).

Technical Memorandum on Abandoned Oil Wells on the Pioneer Boulevard Development Project, prepared by WZI, Inc., 2019 (WZI 2019) (Appendix I).

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
10. HYDROLOGY AND WATER QUALITY. Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	☐	☐	☒	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:	☐	☐	☒	☐
i) result in substantial erosion or siltation on- or off-site;	☐	☐	☒	☐
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;	☐	☐	☒	☐
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐
iv) impede or redirect flood flows?	☐	☐	☒	☐
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☐	☒

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Less Than Significant Impact.
Construction

Construction of the project would require grading and excavation of soils, which would loosen sediment, and then have the potential to mix with surface water runoff and degrade water quality. Additionally, construction would require the use of heavy equipment and construction-related chemicals, such as concrete, cement, asphalt, fuels, oils, antifreeze, transmission fluid, grease, solvents and paints. These potentially harmful materials could be accidentally spilled or improperly disposed of during construction and, if mixed with surface water runoff, could wash into and pollute waters.

These types of water quality impacts during construction of the project would be prevented through implementation of a stormwater pollution prevention plan (SWPPP). Construction of the project would disturb more than one acre of soil; therefore, the proposed project would be required to obtain coverage under the NPDES General Permit for Discharges of Storm Water Associated with Construction Activity. Construction activity subject to this permit includes clearing, grading, and ground disturbances such as trenching, stockpiling, or excavation. The Construction General Permit requires implementation of a SWPPP that is required to identify all potential sources of pollution that are reasonably expected to affect the quality of storm water discharges from the construction site. The SWPPP would generally contain a site map showing the construction perimeter, proposed buildings, stormwater collection and discharge points, general pre- and post-construction topography, drainage patterns across the site, and adjacent roadways. The SWPPP would also include construction BMPs.

Adherence to the existing requirements and implementation of the appropriate BMPs as ensured through the City's plan check and permitting process are included as PPP WQ-1, which would ensure that the project would not violate any water quality standards or waste discharge requirements, potential water quality degradation associated with construction activities would be minimized, and impacts would be less than significant.

Operation

The project would operate three new concrete tilt-up industrial buildings, which would introduce the potential for pollutants such as, chemicals from household cleaners, nutrients from fertilizer, pesticides and sediments from landscaping, trash and debris, and oil and grease from vehicles. These pollutants could potentially discharge into surface waters and result in degradation of water quality. Thus, the project would be required to comply with existing regulations that limit the potential for pollutants to discharge from the site.

Chapter 52 of the City's Municipal Code (and PPP WQ-2) requires implementation of Water Quality Management Plan (WQMP) based on the anticipated pollutants that could result from the project. The BMP would include pollutant source control features and pollutant treatment control features. In addition, the City requires the project to infiltrate, evapotranspire, or biotreat/biofilter the 85th percentile 24-hour storm event. Project drainage on the site would include two drainage subareas (one on the eastside and one on the westside), where runoff would drain to the bio-filtration systems via underground storm drain pipes. The biotreatment would remove pollutants (i.e., sediments, nutrients, heavy metals, oxygen demanding substances, oil and grease, bacteria, and pesticides) prior to discharge into the existing storm drain system that is adjacent to the site.

With implementation of the WQMP, pursuant to the City Municipal Code, (included as PPP WQ-2); which would be verified during the plan check and permitting process for the proposed project, potential pollutants would be reduced to the maximum extent feasible, and development of the proposed project would not violate any water quality standards or waste discharge requirements, and impacts would be less than significant.

b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Less Than Significant Impact. The project currently receives water from the Central Basin Municipal Water District that operates several groundwater wells within the Central Basin. The Basin is managed by the Water District, which regulates the amount of groundwater pumped from the Basin and sets the Basin Production Percentage for all pumpers. In addition, the project would not extract groundwater. Thus, the proposed project would not result in the lowering of the local groundwater table, and impacts would be less than significant.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i. Result in substantial erosion or siltation on- or off-site;

Less Than Significant Impact. The project site does not contain, nor is adjacent to, a stream, river, creek, or other flowing water body. Thus, impacts related to alteration of the course of a stream or river would not occur. The project site is relatively flat and would drain into the internal stormwater system proposed.

Construction
Construction of the project would require grading and excavation of soils, which would loosen sediment and could result in erosion or siltation. However, as described previously, construction of the proposed project requires City approval of a SWPPP prepared by a Qualified SWPPP Developer, as included by PPP WQ-1. The SWPPP is required during the City's plan check and permitting process and would include construction BMPs to reduce erosion or siltation. Typical BMPs for erosion or siltation, include use of silt fencing, fiber rolls, gravel bags, stabilized construction driveway, and stockpile management (as described in the previous above). Adherence to the existing requirements and implementation of the required BMPs per the plan check and permitting process would ensure that erosion and siltation associated with construction activities would be minimized, and impacts would be less than significant.

Operation
The project site is currently developed with seven structures and paved with impervious surfaces. After development of the project, the site would have a total of 154,518 square feet of impervious surfaces. Pervious areas onsite would be landscaped and would not generate soils that could erode. In addition, the proposed drainage infrastructure would slow and retain stormwater, which would also limit the potential for erosion or siltation. Also, as described previously, the City requires the project to implement a WQMP (as included by PPP WQ-2) that would implement BMPs, which reduce erosion and siltation. As a result, stormwater runoff and the potential for erosion and siltation would not increase with implementation of the proposed project. Therefore, the proposed project would not alter the existing drainage pattern in the project area and would not result in substantial erosion or siltation on- or off-site. Impacts would be less than significant.

ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;

Less Than Significant Impact. As described in the previous response, the project site does not contain, nor is adjacent to, a stream, river, creek, or other flowing water body. Thus, impacts related to alteration of the course of a stream or river would not occur. In addition, the proposed project would be required to implement a SWPPP (included as PPP WQ-1) during construction that would implement BMPs, such as the use of silt fencing, fiber rolls, and gravel bags, that would ensure that runoff would not substantially increase during construction, and flooding on or off-site would not occur.

Also, as described above, the project would implement an operational WQMP (as included by PPP WQ-2) that would install an onsite storm drain system and biotreatment devices such as catch basin planters and tree box filters that would infiltrate, evapotranspire, or biotreat/biofilter the 85th percentile 24-hour storm event. Thus, operation of the proposed project would not substantially increase stormwater runoff, and flooding on or off-site would not occur.

iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or

Less Than Significant Impact. As described in the previous responses, the proposed project would be required to implement a SWPPP (included as PPP WQ-1) during construction that would implement BMPs, such as the use of silt fencing, fiber rolls, and gravel bags, that would ensure that runoff would not substantially increase during construction, and that pollutants would not discharge from the project site, which would reduce potential impacts to drainage systems and water quality to a less than significant level.

Also, the project would implement an operational WQMP (included as PPP WQ-2) that would install an onsite storm drain system and biotreatment devices such as biofiltration planters as part of the project, that would infiltrate, evapotranspire, or biotreat/biofilter the 85th percentile 24-hour storm event. Thus, operation of the proposed project would not substantially increase stormwater runoff, and pollutants would be filtered onsite. Impacts related to drainage systems and polluted runoff would be less than significant with implementation of the existing requirements, which would be verified during the plan check and permitting process.

iv. Impede or redirect flood flows?

Less Than Significant Impact. The project site is located in Zone X per the Federal Emergency Management Administration (FEMA) Flood Insurance Rate Map (FIRM) panel 06037C1829F (FEMA 2019). The site is identified as Zone X because it is located in an area with reduced flood risk due to a levee. Thus, the proposed project would not impede or redirect flood flows, and impacts would not occur.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

No Impact. A seiche is a surface wave created when an inland body of water is shaken, usually by earthquake activity. The site also is not subject to flooding hazards associated with a seiche because there are no large body of surface water located near the project site to result in effects related to a seiche, which could result in release in pollutants due to inundation of the site.

The Pacific Ocean is located approximately 15 miles southwest of the project site; consequently, there is no potential for the project site to be inundated by a tsunami that could release pollutants. In addition, the project site is flat and not located near any steep hillsides; therefore, there is no potential for the site to be adversely affected by mudflow. Thus, implementation of the proposed project would not expose people or structures to a significant risk of loss, injury, or death involving inundation by seiche, tsunami, or mudflow that could release pollutants due to inundation of the project site. No impact would occur.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

No Impact. As described previously, the project would be required to have an approved SWPPP, which would include construction BMPs to minimize the potential for construction related sources of pollution. For operations, the proposed project would be required to implement source control BMPs to minimize the introduction of pollutants; and treatment control BMPs to treat runoff. With implementation of the operational source and treatment control BMPs that would be required by the City during the project permitting and approval process (pursuant to PPP WQ-1 and PPP WQ-2), potential pollutants would be reduced to the maximum extent feasible, and implementation of the proposed project would not obstruct implementation of a water quality control plan.

As described previously, water supplies are provided by the Central Basin Municipal Water District that extracts water from the Central Basin. Groundwater pumping is regulated through a Basin Production Percentage to ensure the groundwater supply is sustainable. In addition, the project would not extract groundwater. Thus, the proposed project would not result in the lowering of the local groundwater table, and impacts would be less than significant.

Existing Plans, Programs, or Policies

PPP WQ-1: Stormwater Pollution Prevention Plan. Prior to grading permit issuance, the project developer shall have a Stormwater Pollution Prevention Plan (SWPPP) prepared by a Qualified SWPPP Developer (QSD) in accordance with the City's Municipal Code Chapter 52 and the Los Angeles Regional Water Quality Control Board National Pollution Discharge Elimination System (NPDES) Storm Water Permit Order No. R4-2012-0175 (MS4 Permit). The SWPPP shall incorporate all necessary Best Management Practices (BMPs) and other NPDES regulations to limit the potential of erosion and polluted runoff during construction activities. Project contractors shall be required to ensure compliance with the SWPPP and permit periodic inspection of the construction site by the City of Santa Fe Springs staff or its designee to confirm compliance.

PPP WQ-2: Water Quality Management Plan. Prior to grading permit issuance, the project applicant shall have a Water Quality Management Plan (WQMP) approved by the City for implementation. The project shall comply with the City's Municipal Chapter 52 and the Municipal Separate Storm Sewer System (MS4) permit requirements in effect for the Regional Water Quality

Control Board (RWQCB) at the time of grading permit to control discharges of sediments and other pollutants during operations of the project.

Mitigation Measures

No mitigation measures related to hydrology and water quality are required.

Sources

Federal Emergency Management Agency (FEMA 2019). National Flood Hazard Layer (NFHL) Viewer. Map #06037C1829F. Available at: https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
11. LAND USE AND PLANNING. Would the project:				
a) Physically divide an established community?	☐	☐	☐	☒
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒

a) Physically divide an established community?

No Impact. The physical division of an established community could occur if a major road were built through an established community or neighborhood, or if a major development was built which was inconsistent with the land uses in the community such that it divided the community. The environmental effects caused by such could include lack of a, or disruption of, access to services, schools, or shopping areas. It could also include the creation of blighted buildings or areas due to the division of the community.

The proposed project would redevelop an existing business park with three new concrete tilt-up industrial buildings within an already urbanized area that is surrounded by industrial, business park, and commercial uses. The project does not include the construction of a new road or the implementation of an inconsistent land use into the project's vicinity. Therefore, no impact would occur.

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

No Impact. The project site has a General Plan designation of Business Park and is zoned Limited Manufacturing (ML). The proposed project would redevelop an existing site that is currently developed with seven office and warehouse buildings with three new concrete tilt-up industrial buildings whose tenants will need to be consistent with the ML zone land uses. Additionally, the City's plan check and permitting process would ensure that the project complies with the applicable zoning and Municipal Code requirements. Thus, impacts related to conflict with a policy adopted for the purpose of avoiding or mitigating an environmental effect would not occur.

Existing Plans, Programs, or Policies

There are no impact reducing Plans, Programs, or Policies related to land use and planning that are applicable to the project.

Mitigation Measures

No mitigation measures related to land use and planning are required.

Sources

City of Santa Fe Springs. Municipal Code sections 155.180 through 155.204, Limited Manufacturing (ML) Zone.

City of Santa Fe Springs. General Plan, Land Use Element.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
12. MINERAL RESOURCES. Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	☐	☐	☐	☒

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

No Impact. According to the Special Report 209 from the California Geological Survey, the City of Santa Fe Springs is not included in a list of lead agencies in the San Gabriel Valley P-C Region with active mine operations, designated lands, or lands classified as Mineral Resource Zone 2 (MRZ-2) within its jurisdiction (CGS 2010). Therefore, development of the site would not result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state. No impact would occur.

b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on the general plan, specific plan or other land use plan?

No Impact. As described above, the project site is not located within a region of known mineral significance. The site has a General Plan designation of Business Park and does not support mineral extraction activities onsite. Therefore, implementation of the Project would not result in the loss of locally important mineral resources, and impacts would not occur.

Existing Plans, Programs, or Policies

There are no impact reducing Plans, Programs, or Policies related to mineral resources that are applicable to the Project.

Mitigation Measures

No mitigation measures related to mineral resources are required.

Sources

California Geological Survey (CGS 2010), Special Report 209, Update of Mineral Land Classification for Portland Cement Concrete-Grade Aggregate in the San Gabriel Valley Production-Consumption Region, Los Angeles County, California, 2010.
https://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=mlc

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
13. NOISE. Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☒	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

The discussion below is based on the Noise Impact Analysis for 9920 Pioneer Boulevard, City of Santa Fe Springs, California, prepared by Giroux & Associates (Giroux 2019) (Appendix F).

Exterior Noise Level Standards

The City's General Plan Noise Element, Table 1: Noise/Land Use Compatibility Matrix illustrates that exterior noise levels for industrial land uses are normally acceptable below 70 dBA CNEL and conditionally acceptable with noise levels below 75 dBA CNEL.

Municipal Code Chapter 155.424 regulates noise level to not exceed levels set forth in Table N-1, below.

Table N-1: Permitted Noise Levels

A-Weighted Sound Level in Decibels (dB(A))										
	Daytime (7:00 a.m. to 10:00 p.m.)					Nighttime (10:00 p.m. to 7:00 a.m.)				
	Maximum Cumulative Minutes Duration in Any 1-Hour Period				Absolute Maximum	Maximum Cumulative Minutes Duration in Any 1-Hour Period				Absolute Maximum
Receiving Area	30	15	5	1		30	15	5	1	
In the ML, PF, or BP zone	60	65	70	75	80	60	65	70	75	80
Source: City of Santa Fe Springs, General Plan Noise Element, Table 1 Noise/Land Use Compatibility Matrix										

Sensitive Receptor Noise Levels

The City's Noise Element details that noise-sensitive residential land uses are considered normally acceptable with the exterior noise levels below 60 dBA CNEL, and conditionally acceptable with noise levels below 65 dBA CNEL. The closest noise sensitive receptors to the site are 850 feet from the nearest property line.

Existing Ambient Noise Levels

Noise measurements were taken in order to document existing baseline levels in the area. Short-term (15 minutes) noise measurements were conducted on Friday, June 7, 2019, at four locations from 2:20 p.m. to 3:50 p.m. (Giroux 2019). Measurements locations are shown in Table N-2 and Figure 10, *Noise Measurement Locations*.

Table N-2: Measured Noise Levels (dBA) and Meter Location

Meter	Location	Leq	Lmax	Lmin
1	Intersection of Pioneer Blvd and Alaree by Site	61.9	72.4	40.3
2	Corner Arlee Ave and Smith Ave	61.2	70.0	41.5
3	Pioneer and Alburtis Ave by Athletic Field	68.4	86.1	50.5
4	Alburtis Ave in front of Townhomes II Borgo	63.5	77.9	49.5

Source: Giroux & Associates, 2019

Figure 10: Noise Measurement Locations



a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Less than Significant Impact.

Construction

The construction activities for the proposed project are anticipated to include demolition, site preparation, grading, building construction, paving, and architectural coating. Construction of the proposed project would occur over a 14-month period. Noise impacts from construction activities

associated with the proposed project would be a function of the noise generated by construction equipment, equipment location, sensitivity of nearby land uses, and the timing and duration of the construction activities. Noise levels generated by heavy construction equipment have the potential to range from approximately 78 dBA to 89 dBA, as shown on Table N-3.

Table N-3: Construction Activity Noise Level

Construction Activity	Noise Level (dBA)
Ground Clearing	84
Excavation	89
Foundations	78
Erection	85
Finishing	89

Source: Giroux & Associates, 2019

Temporary construction noise impacts would vary because the noise strength of construction equipment ranges widely as a function of the equipment used and its activity level. The demolition and earth-moving sources are the noisiest, with equipment noise typically ranging from 75 to 89 dBA at 50 feet from the source (Giroux 2019).

Point sources of noise emissions are attenuated by a factor of 6 dB per doubling of distance through geometrical (spherical) spreading of sound waves. The quieter noise sources will drop to a 65 dBA exterior/45 dBA interior noise level by about 200 feet from the source while the loudest may require 800 feet from the source to reduce an 89-90 dBA source strength to a generally acceptable 65 dBA exterior exposure level. This estimate assumes a clear line of-sight from the source to the receiver. Any partially or completed development will act as a noise barrier that will interrupt equipment noise propagation.

The closest noise sensitive receptors to the project site are 850 feet to the northeast (Giroux 2019). This distance provides more than -25 dBA of reduction due to distance alone, which would result in construction noise ranging between 50 to 64 dBA. However, there are numerous intervening structures between the project site and the nearby sensitive receptors that would further reduce construction noise. Thus, due to distance and shielding from existing structures, project construction would not result in noise that would exceed the City's standards.

In addition, Section 155.425 of the Santa Fe Springs Municipal Code, states that construction related activities are exempt from noise regulations provided the activities take place during the hours of 7:00 a.m. to 7:00 p.m. which the project would comply with and is included as PPP NOI-1. Therefore, project construction would be compliant with the City's noise related standards and impacts would be less than significant.

Operation

The proposed project would result in the operation of three concrete tilt-up industrial buildings. Operation of the proposed buildings would generate noise from idling trucks, delivery truck activities, backup alarms, as well as loading and unloading of dry goods, refrigerated containers or reefers, roof-top air conditioning units, and parking lot vehicle movements. The primary noise source would be from the buildings' loading docks. The proposed loading docks are generally located on the northern portion of the Buildings 2 and 3 and the southern side of Building 1. With the exception of a 14-foot high wall around the truck yard area for Building 1, the project includes the installation of 8-foot high tube steel fence along the property lines of the project site.

The Noise Impact Analysis detailed that noise level for a forklift with a back-up alarm is 75 dBA. A flat-bed truck has a noise level of 74 dBA Lmax. Together with a forklift this could create a combined noise level of 76 dBA at 50 feet. As mentioned previously, the distance to the closest sensitive noise receptor is 850 feet from the project site. Unlike the 14-foot wall around the truck yard area for Building 1, potential noise impacts from Buildings 2 and 3 are not reduced from the 8-foot high tube steel fence. However, distance and intervening structures would provide 3 dBA of attenuation. Therefore, the resultant noise level of 48 dBA Leq would be lower than the measured noise level at the closest off-site use and would not result in an exceedance of the City's noise standards.

Vehicular Noise

Vehicular noise would result from operation of the proposed project. As discussed in the Trip Generation and Level of Service Analysis (Appendix J) and detailed in Table T-1, the proposed project is forecast to generate 910 fewer daily trips than the existing use on the project site. However, it would generate 76 more a.m. peak hour and 69 more p.m. peak hour trips. Table N-4 details the existing traffic volumes and the projected project traffic for both a.m. and p.m. peak hours.

Table N-4: Peak Hour Area Traffic with and without Project

AM Peak Hour	(vehicles per hour)		Project Noise
Roadway Segment	Peak Hour Traffic	Project Traffic	Increase (dBA)
Pioneer/ N of Willake	617	29	+0.2
Pioneer/ S of Willake	660	87	+0.5
Pioneer N of Telegraph	679	145	+0.8
Pioneer S of Telegraph	863	43	+0.2
Telegraph/ E of Pioneer	3,337	67	+0.1
Telegraph/ W of Pioneer	3,279	35	+0.1
PM Peak Hour	**(vehicles per hour)**		**Project Noise**
Roadway Segment	**Peak Hour Traffic**	**Project Traffic**	**Increase (dBA)**
Pioneer/ N of Willake	834	26	+0.1
Pioneer/ S of Willake	859	78	+0.4
Pioneer N of Telegraph	881	130	+0.6
Pioneer S of Telegraph	1,258	39	+0.1
Telegraph/ E of Pioneer	3,213	31	+0.1
Telegraph/ W of Pioneer	3,308	60	+0.1

Source: EPD, 2019

The increase from 679 to 824 vehicles in the a.m. peak hour would result in a 0.8 dBA increase in noise levels. Generally, a 3 dBA increase and above is considered a significant impact. Therefore, the project would result in a less than significant increase in vehicular noise.

b) Generation of excessive groundborne vibration or groundborne noise levels?

Less than Significant Impact. There are no city vibration standards applicable to the proposed project. However, the Caltrans *Transportation and Construction Vibration Guidance Manual* (2013) provides guidelines for assessing the potential for adverse vibration effects related to structural damage and human perception. The vibration guidelines established by Caltrans for assessing structural damage and human perception are shown in Tables N-5 and N-6, respectively.

Table N-5: Caltrans Vibration Damage Potential Threshold Criteria

Structure and Condition	Maximum PPV (in/sec)	
	Transient Sources	Continuous/Frequent Intermittent Sources
Historic and some old buildings	0.5	0.25
Older residential structures	0.5	0.3
New residential structures	1.0	0.5
Modern industrial/commercial buildings	2.0	0.5

Source: Caltrans, 2013

Table N-6: Caltrans Vibration Annoyance Potential Criteria

Structure and Condition	Maximum PPV (in/sec)	
	Transient Sources	Continuous/Frequent Intermittent Sources
Barely perceptible	0.35	0.01
Distinctly perceptible	0.24	0.035
Strongly perceptible	0.90	0.10
Severe	2.0	0.40

Source: Caltrans, 2013

The project includes temporary and intermittent use of construction equipment for various construction activities that can result in the generation of groundborne vibration levels. Groundborne vibration is a concern when sensitive receptors, such as residences, are in proximity to the vibration sources. The nearest sensitive receptor that could be exposed to vibration levels from project construction are 850 feet to the northeast (Giroux 2019). No pile driving or blasting, which are considered to be major sources of vibration levels, would be required for the proposed project; however, construction would utilize jackhammers, bulldozers, and loaded trucks.

The various PPV vibration velocities for this construction equipment, along with their corresponding RMS velocities (in VdB), that can generate perceptible vibration levels are identified in Table N-7. As shown, vibration velocities could range from approximately 0.003 to 0.089 inch-per-second PPV at 25 feet from the source activity, depending on the type of construction equipment in use.

Table N-7: Vibration Source Levels for Construction Equipment at 25 Feet

Equipment	PPV (in/sec)
Large Bulldozer	0.089
Loaded Trucks	0.076
Jackhammer	0.035
Small Bulldozer	0.003

Source: Caltrans, 2013

As the vibration level for a large bulldozer would be 0.089 at 25 feet, and the closest sensitive receptor is 850 feet from the site, the vibration at the sensitive receptor would be much lower, and would not be exposed to PPV groundborne vibration levels that exceed the 0.3 in/sec PPV threshold for continuous/frequent intermittent vibration sources, and vibration impacts associated with building damage would be less than significant. Additionally, based on Caltrans criteria for human annoyance, the vibration levels experienced at the closest sensitive receptor would not be distinctly or strongly perceptible. In addition, project construction would occur in accordance with the permissible construction hours established by the City. Thus, vibration impacts associated with human annoyance would be less than significant.

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

No Impact. There are no airports within two miles of the project site. The closest airport is the Fullerton Municipal Airport that is located 7.5 miles southeast of the project site. Similarly, the project site is not located within the vicinity of a private airstrip and would not expose people residing or working in the project area to excessive noise levels related to an airstrip. No impacts related to airport or airstrip noise would occur from implementation of the project.

Existing Plans, Programs, or Policies

PPP NOI-1: Construction Hours: Pursuant to Section 155.425 of the Santa Fe Springs Municipal Code, states that construction type devices, provided it is not within 500 feet from a residential zone, may be utilized between the hours of 7:00 a.m. to 7:00 p.m., and provided that the operation or use of such devices do not exceed the permitted noise levels identified in Section 155.424.

Mitigation Measures

No mitigation measures related to noise are required.

Sources

Noise Impact Analysis for 9920 Pioneer Boulevard, City of Santa Fe Springs, California, prepared by Giroux & Associates (Giroux 2019) (Appendix F).

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
14. POPULATION AND HOUSING. Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

a) Induce substantial unplanned population growth in an area, either directly or indirectly?

No Impact. The proposed project would redevelop an existing business park and construct three new concrete tilt-up industrial buildings. The proposed development is consistent with the City's General Plan and zoning designations for the project site. The Southern California Association of Governments (SCAG) projects regional population growth and forecasts their projections based on planned land use. The project is not anticipated to change the existing land use of the project site. Thus, the development of the project for the proposed uses have been planned for and would not result in substantial unplanned population growth. Similarly, during construction, workers are anticipated to come from the local region and travel from job site to job site, and do not typically relocate. As described in the Project Description, construction of the proposed project is anticipated to occur over 14 months. The temporary need for construction workers on the project site would not induce substantial unplanned population area in the Santa Fe Springs area.

In addition, the proposed project does not include the extension of roads or other infrastructure. The project would be served by the existing adjacent roadway system, and utilities would be provided by the existing infrastructure that is located with the adjacent roadways. Therefore, the proposed project would not extend roads or other infrastructure that could indirectly induce unplanned population growth. Overall, no direct and indirect impacts related to unplanned population growth would occur.

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. The project site currently consists of approximately 158,000 square feet of business park uses and does not contain any housing. The project would redevelop the site to construct three new concrete tilt-up industrial buildings. No housing would be displaced by implementation of the proposed project, and no impact would occur.

Existing Plans, Programs, or Policies

There are no impact reducing Plans, Programs, or Policies related to population and housing are applicable to the project.

Mitigation Measures

No mitigation measures related to population and housing are required.

Sources

None.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
15. PUBLIC SERVICES.				
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
Fire protection?	☐	☐	☒	☐
Police protection?	☐	☐	☒	☐
Schools?	☐	☐	☒	☐
Parks?	☐	☐	☒	☐
Other public facilities?	☐	☐	☒	☐

a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for:

Fire protection?
Police protection?
Schools?
Parks?
Other public facilities?

***Fire Protection* – Less than Significant Impact.** The Santa Fe Springs Department of Fire – Rescue fire provides services the resident community and business population in an area of approximately 9 square miles. The Fire Department provides services including fire prevention and suppression, emergency medical services, technical rescue, and hazardous materials response. The Fire Department has four fire stations. The closest fire station is Fire Station 4, located at 11736 Telegraph Road, which is located 850 feet west of the project site. Redevelopment of the project site would result in an increased number of employees onsite. However, the project would include new fire prevention infrastructure pursuant to current code requirements. The City has adopted the California Fire Code (Title 24, Part 9 of the California Code of Regulations) in Chapter 93.01 of the City Municipal Code, which regulates new structures related to safety provisions, emergency planning, fire-resistant construction, fire protection system, and appropriate emergency access throughout the site.

Since the site is already served by the existing fire station that is across the street from the site, and the project would be constructed pursuant to existing California Fire Code regulations, the project would not result in the need for new or physically altered fire department facilities that could cause significant environmental impacts. Therefore, the project would result in less than significant impacts related to fire protection services.

***Police Protection* - Less than Significant Impact.** The City of Whittier Police Department provides policing services for the City of Santa Fe Springs under contract. The Police Services Center is located at 11576 Telegraph Road, approximately 1,900 feet west of the project site. As described in the previous response, the project would result in an increased number of employees onsite site. Crime and safety issues during project construction may include: theft of building materials and construction equipment, malicious mischief, graffiti, and vandalism.

During operation, the project is anticipated to generate a typical range of police service calls, such as vehicle break-ins, residential thefts and disturbances, and vandalism. Security concerns would be addressed by providing low-intensity security lighting. Also, pursuant to the City's existing plan check and permitting process, the Police Department would review the project's site plan and photometric plan to ensure that design measures are incorporated appropriately to provide a safe environment. Because the project would generate a slight increase in employees on the project site, it would result in an incremental increase in demands on law enforcement services. However, due to the redevelopment nature of the project site that is within an area that is already served, the increase would not be significant when compared to the current demand levels. Due to the location of the Police Department facility in relation to the project site, law enforcement personnel are anticipated to be able to respond in a timely manner to emergency calls from the project site. In addition, the response to calls for law enforcement services from the project site would not require construction or expansion of the Police Department headquarters facilities. Therefore, the project would not result in the need for, new or physically altered police protection facilities, and impacts related to police protection services would be less than significant.

***Schools* – Less than Significant Impact.** The project is a light industrial project that would not directly generate students. As described previously, the proposed project is not anticipated to generate a new population. During construction of the project, workers are anticipated to come from the local region and travel from job site to job site. Construction of the project is anticipated to occur over 14 months. Thus, construction workers and their student aged children are not anticipated to move to the project area in response to the project. Therefore, the number of students from construction of the project is not anticipated to increase. Similarly, employees needed to operate the proposed uses are anticipated to come from within the project region due to the unemployment rate and limited number of employees needed for the project. Thus, substantial in-migration of employees that could generate new students is not anticipated to occur. As required by all projects within the City, the proposed project is required to pay School Mitigation Impact fees, as included by PPP PS-1. Overall, impacts related to schools would be less than significant.

***Parks* – Less than Significant Impact.** The proposed project would develop three new concrete tilt-up industrial buildings and does not include development of park facilities. In addition, as described previously, the proposed project is not anticipated to result in an influx of new residents, as the employees needed to operate the proposed buildings are primarily anticipated to come from the unemployed labor force in the region. Thus, the proposed project would not generate a substantial population that would require construction or expansion of park facilities, and impacts would be less than significant.

***Other Public Facilities* – Less than Significant Impact.** Refer to the previous responses. The proposed project would not result in an increased resident population or a significant increase in the local workforce. Based on these factors, the proposed project would not result in any long-term impacts to other public facilities.

Existing Plans, Programs, or Policies

PPP PS-1: School Fees: Prior to the issuance of either a certificate of occupancy or prior to building permit final inspection, the applicant shall provide payment of the appropriate fees set forth by the applicable school districts related to the funding of school facilities pursuant to Government Code Section 65995 et seq.

Mitigation Measures

No mitigation measures related to public services are required.

Sources

City of Santa Fe Springs. Department of Fire - Rescue. Accessed: http://www.santafesprings.org/cityhall/fire_rescue/default.asp

City of Santa Fe Springs. Police Services. Accessed: http://www.santafesprings.org/cityhall/police_services/default.asp

City of Santa Fe Springs Municipal Code. Accessed at: http://www.amlegal.com/codes/client/santa-fe-springs_ca/

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
16. RECREATION.				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☒	☐
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☒	☐

a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that physical deterioration of the facility would be accelerated?

Less than Significant Impact. As described previously, the proposed project would re-develop the site with three new concrete tilt-up industrial buildings, which would not result in an influx of new residents, as the employees needed to operate the project are primarily anticipated to come from the unemployed labor force in the region. Thus, the proposed project would not generate a substantial population that would generate significant use of existing neighborhood or regional parks and recreation facilities, such that substantial physical deterioration would occur or be accelerated, and impacts would be less than significant.

b) Include or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Less than Significant Impact. The proposed project would not result in an influx of new residents. Thus, the proposed project would not generate a substantial population that would generate significant use of existing recreational facilities, and construction of new or expansion of existing recreational facilities is not anticipated to be required. Thus, impacts related to recreation would be less than significant.

Existing Plans, Programs, or Policies

There are no impact reducing Plans, Programs, or Policies related to recreation are applicable to the project.

Mitigation Measures

No mitigation measures related to recreation are required.

Sources

None.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
17. TRANSPORTATION. Would the project:				
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	☐	☐	☒	☐
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	☐	☐	☐	☒
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☒	☐
d) Result in inadequate emergency access?	☐	☐	☐	☒

The discussion below is based on the Trip Generation and Level of Service Analysis, prepared by EPD Solutions, Inc. (EPD 2019) (Appendix J).

a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

Less than Significant Impact.

Construction
Construction activities associated with the project would generate vehicular trips from construction workers traveling to and from the project site, delivery of construction supplies and import materials to, and export of debris from, the project site. However, these activities would only occur for an estimated time period of 14 months. The increase of trips during construction activities would be limited and are not anticipated to exceed the number of operational trips described below. The short-term vehicle trips from construction of the project would generate less than significant traffic related impacts.

Operation
As detailed in the project description, the project site is currently developed with seven structures of business and office uses for a total of 157,669 square feet. A total of 149,605 square feet is used for business park uses, while 8,064 square feet is office space. The project would redevelop the existing site with three new speculative concrete tilt-up industrial buildings totaling 163,518 square feet, or an increase of 5,849 square feet beyond the existing square footage.

Table T-1 shows that during operation the proposed project would generate 145 vehicle trips during the a.m. peak hour, 131 vehicle trips during the p.m. peak hour, and 1,029 daily vehicle trips. The trip generation analysis for the project was prepared using trip rates from the Institute of

Transportation Engineers (ITE) Trip Generation, 10th Edition (2017). The trip generation for the project is based on the ITE rates for the "General Light Industrial" land use. The rate is based on more than 40 surveys of General Light Industrial developments throughout the country. The ITE description of General Light Industrial notes that there is a small amount of office space associated with this type of land use, and it would by typical for a General Light Industrial building to include office space to accommodate the administrative functions of the business. Therefore, the office space included in the project description (approximately 5 percent of the project) would be supportive of the light industrial activities and is accounted for in the trip rate.

The analysis accounts for trips generated by the existing business park and forecasts the net new trip generation of the project. The trip generation also provides an estimate of the heavy vehicle trips and applies a passenger car equivalent (PCE) factor to heavy vehicle trips. Table T-1 presents the PCE trip generation estimate for the project. As shown, the project would generate 910 fewer daily trips; but, 76 more a.m. peak hour and 59 more p.m. peak hour trips compared to the existing uses.

Table T-1: Project PCE Trip Generation

Land Use	Units		Daily	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total
Trip Rates									
General Light Industrial[1]		TSF	4.96	0.62	0.08	0.70	0.08	0.55	0.63
Business Park[2]		TSF	12.44	0.24	0.16	0.40	0.19	0.23	0.42
General Office Building[3]		TSF	9.74	1.00	0.16	1.16	0.18	0.97	1.15
Existing Trip Generation									
Business Park	149.605	TSF	1861	37	23	60	29	34	63
Office	8.064	TSF	79	8	1	9	1	8	9
Total Trip Generation			1940	45	25	69	30	42	72
Project Trip Generation									
Proposed Project (Light Industrial)	163.518	TSF	811	98	16	114	13	90	103
Vehicle Mix[4]		Percent							
Passenger Vehicles		78.60%	637	79	11	90	11	70	81
2-Axle Trucks		8.00%	65	8	1	9	1	7	8
3-Axle Trucks		3.90%	32	4	1	4	1	3	4
4+-Axle Trucks		9.50%	77	10	1	11	1	9	10
		100%	811	101	14	114	13	90	103
PCE Trip Generation[5]		PCE Factor							
Passenger Vehicles		1.0	637	79	11	90	11	70	81
2-Axle Trucks		1.5	97	12	2	14	2	11	12
3-Axle Trucks		2.0	63	8	1	9	1	7	8
4+-Axle Trucks		3.0	231	29	4	33	4	26	29
Total PCE Trip Generation			1029	128	17	145	17	114	131
Net Trip Generation			-910	83	-7	76	-13	72	59

TSF = Thousand Square Feet

[1] Trip rates from the Institute of Transportation Engineers, *Trip Generation, 10th Edition,* 2017. Land Use Code 110 - General Light Industrial.

[2] Trip rates from the Institute of Transportation Engineers, *Trip Generation, 10th Edition,* 2017. Land Use Code 770 - Business Park.

[3] Trip rates from the Institute of Transportation Engineers, *Trip Generation, 10th Edition,* 2017. Land Use Code 710 - General Office Building.

[4] Vehicle Mix from the City of Fontana, Truck Trip Generation Study, August 2003. Classification: General Light Industrial

[5] Passenger Car Equivalent (PCE) factors from San Bernardino County CMP, Appendix B - Guidelines for CMP Traffic Impact Analysis Reports in San Bernardino County, 2016

Traffic traveling to and from the project site would mostly be traveling to and from the I-605 and I-5 freeways, and the intersections of Pioneer Boulevard/Telegraph Road and Pioneer Boulevard/Willake Street would receive most of the project traffic

The following trip distribution assumptions were applied to the project trip generation:

- 20% traveling to the north on I-605 via Telegraph Road
- 10% traveling to the south on I-605 via Telegraph Road
- 10% traveling to the north on I-5 via Telegraph Road and Lakewood Blvd ramps
- 20% traveling to the south on I-5 via Pioneer Boulevard and Florence Avenue
- 20% traveling east on Telegraph Road (non-freeway trips)
- 10% traveling west on Telegraph Road (non-freeway trips)

Traffic counts at Pioneer Boulevard/Telegraph Road and Pioneer Boulevard/Willake Street were collected on Tuesday, July 9, 2019 and were used to calculate the existing level of service (LOS). Traffic counts at the remaining intersections were collected on Thursday, January 16, 2019. Future Opening Year traffic volumes were forecast by adding a 2 percent per year growth rate to the existing traffic counts and by adding trips generated by other approved projects in the area. Two projects were identified: 1) Breitburn Industrial which proposes 318,121 square feet of industrial use at the northwest corner of Santa Fe Springs road/Telegraph Road and; 2) Rexford Industrial, which proposes 201,467 square feet of industrial use at 9615 Norwalk Boulevard. The trip generation of the two cumulative projects is shown in Table T-2.

Table T-2: Cumulative Projects Trip Generation

Land Use	Units		Daily	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total
Trip Rates									
General Light Industrial[1]		TSF	4.960	0.602	0.098	0.700	0.082	0.548	0.630
Total Vehicle Trip Generation									
Breitburn Industrial	318.121	TSF	1578	196	27	223	26	174	200
Rexford Industrial	201.467	TSF	999	124	17	141	17	110	127
Total Trip Generation			2577	320	44	364	43	285	327
Vehicle Mix[2]		Percent							
Passenger Vehicles		78.60%	2026	252	34	286	33	224	257
2-Axle Trucks		8.00%	206	26	3	29	3	23	26
3-Axle Trucks		3.90%	101	12	2	14	2	11	13
4+-Axle Trucks		9.50%	245	30	4	35	4	27	31
		100%	2577	320	44	364	43	285	327
PCE Trip Generation[3]		PCE Factor							
Passenger Vehicles		1.0	2026	252	34	286	33	224	257
2-Axle Trucks		1.5	309	38	5	44	5	34	39
3-Axle Trucks		2.0	201	25	3	28	3	22	26
4+-Axle Trucks		3.0	734	91	12	104	12	81	93
Total PCE Trip Generation			3270	406	55	462	54	631	415

TSF = Thousand Square Feet
PCE = Passenger Car Equivalent

[1] Trip rates from the Institute of Transportation Engineers, *Trip Generation, 10th Edition,* 2017. Land Use Code 110 - General Light Industrial.

[2] Vehicle Mix from the City of Fontana, *Truck Trip Generation Study,* August 2003. Classification: General Light Industrial

[3] Passenger Car Equivalent (PCE) factors from San Bernardino County CMP, Appendix B - Guidelines for CMP Traffic Impact Analysis Reports in San Bernardino County, 2016

LOS were calculated using the Intersection Capacity Utilization methodology for signalized intersections and the Highway Capacity Manual 6th Edition methodology for unsignalized and Caltrans intersections. The LOS was calculated for existing and existing plus project conditions and is shown in Table T-3. It should be noted that the LOS analysis evaluated the new project trips without taking credit for the exiting land uses. For this reason, the actual with-project LOS is expected to be lower than shown in the table. Project impacts were determined using the significant impact thresholds provided in the Los Angeles County Department of Public Works Traffic Impact Analysis Report Guidelines which state that a significant impact would occur if the project related increase in the volume to capacity (v/c) ratio equals or exceeds the following thresholds:

Pre-project LOS	Pre-project V/C	Project V/C Increase
C	0.71 to 0.80	0.04 or more
D	0.81 to 0.90	0.02 or more
E/F	0.91 or more	0.01 or more

Table T-3: Baseline and Plus Project Peak Hour Levels of Service

Intersection	Signal Control	Analysis Method	AM Peak V/C or Delay[2]	AM Peak LOS[1]	PM Peak V/C or Delay[2]	PM Peak LOS[1]	AM Peak V/C or Delay[2]	AM Peak LOS[1]	PM Peak V/C or Delay[2]	PM Peak LOS[1]	AM Peak Increase in Delay or V/C Ratio	PM Peak Increase in Delay or V/C Ratio	Impact?
			Existing				Existing plus Project						
1. Pioneer Blvd/Willake St	TWSC	ICU	15.0	C	14.8	B	16.9	C	26.5	D			
2. Pioneer Blvd/Telegraph Rd	Signal	ICU	0.689	B	0.775	C	0.731	C	0.788	C	0.042	0.013	No
3. Orr & Day Rd/Telegraph Rd	Signal	ICU	0.709	C	0.839	D	0.722	C	0.851	D	0.013	0.012	No
4. I-605 NB Ramp-	Signal	ICU	0.716	C	0.678	B	0.717	C	0.690	B	0.001	0.012	No
Bartley Ave/Telegraph Rd		HCM	23.0	C	16.5	B	23.0	C	16.8	B			
5. I-605 SB Ramps-	Signal	ICU	0.976	E	1.072	F	0.981	E	1.079	F	0.005	0.007	No
Cedardale Dr/Telegraph Rd		HCM	90.30	F	115.7	F	90.4	F	117.7	F			
			Opening Year				Opening Year plus Project						
1. Pioneer Blvd/Willake St	TWSC	ICU	15.5	C	15.4	C	17.6	C	29.1	D			
2. Pioneer Blvd/Telegraph Rd	Signal	ICU	0.753	C	0.807	D	0.761	C	0.820	D	0.008	0.013	No
3. Orr & Day Rd/Telegraph Rd	Signal	ICU	0.768	C	0.900	D	0.781	C	0.912	E	0.013	0.012	No
4. I-605 NB Ramp-	Signal	ICU	0.746	C	0.732	C	0.747	C	0.744	C	0.001	0.012	No
Bartley Ave/Telegraph Rd		HCM	24.2	C	18.3	B	24.3	C	18.8	B			
5. I-605 SB Ramps-	Signal	ICU	1.036	F	1.147	F	1.042	F	1.154	F	0.006	0.007	No
Cedardale Dr/Telegraph Rd		HCM	103.2	F	136.7	F	103.3	F	138.7	F			

ICU = Intersection Capacity Utilization

HCM = Highway Capacity Manual 6th Edition

TWSC = Two Way Stop Controlled (evaluated using the HCM Methodology)

[1] Level of Service

[2] Volume-to-capacity ratio for signalized intersection, delay for unsignalized intersections

Based on this analysis, the project would not create any significant traffic impacts in the existing plus project or opening year plus project conditions.

In addition, the project area is currently served with transit service from the Los Angeles County Metropolitan Transportation Authority (LA Metro) and Norwalk Transit System (NTS). There is an existing bus stop with LA Metro's Local Route 62 line located at the northwest corner of the intersection of Telegraph Road and Pioneer Boulevard, which, starting on Telegraph Road, runs east-west from Boyle Heights in the City of Los Angeles to the City of Hawaiian Gardens. Another bus stop at the southwest corner of the same intersection serves Norwalk Transit System Line 1 and 3. Operation of the project would not affect the operation of the bus routes. Thus, no impacts would occur.

There are no existing bicycle infrastructure such as bicycle trails/lanes on the surrounding streets. Therefore, the project would not alter existing bicycle facilities. In addition, an existing sidewalk runs along the western edge of the project site. Implementation of the project would remove and replace the existing sidewalk along the western edge of the project site. These improvements would result in a less than significant impact.

b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

No Impact. CEQA Guidelines section 15064.3 subdivision (b) discusses the use of vehicle miles traveled (VMT) for the impact analysis. The requirement of this section takes effect in June 2020 or where an agency has adopted thresholds for VMT. The City of Santa Fe Springs has not adopted any thresholds regarding VMT. Therefore, the project would not be inconsistent with CEQA Guidelines section 15064.3, subdivision (b), and impacts would not occur.

c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less than Significant Impact. The project would develop and operate three concrete tilt-up industrial buildings onsite. None of the proposed structures would include incompatible uses such as farm equipment. The project's design would be reviewed by the City during the plan check and permitting process; thus, the geometric design features of the project site would not result in increased hazards. Access to the project site would be via three driveways along Pioneer Boulevard, each ranging between 25 to 35 feet in width, and would be designed in compliance with the City's design standards to provide for adequate turning for passenger cars, fire trucks, and delivery trucks.

Additionally, the project site does not include any visual obstructions that would block sight distance at the driveways or that would prohibit full access in, and out of, the project area. Thus, motorists entering and exiting the project site would be able to do so comfortably, safely, and without undue congestion. As such, project access and circulation would be adequate, and project impacts related to hazardous design features would be less than significant.

d) Result in inadequate emergency access?

No Impact. The proposed project would develop and operate three concrete tilt-up industrial buildings that would be permitted and approved in compliance with existing safety regulations,

such as the California Building Code and Fire Code (as integrated into the City's Municipal Code) to ensure that it would not result in inadequate emergency access.

The proposed construction activities, including equipment and supply staging and storage, would occur within the project site and would not restrict access of emergency vehicles to the project site or adjacent areas. During construction, Pioneer Boulevard would remain open to ensure adequate emergency access to the project area and vicinity. Thus, impacts related to inadequate emergency access during construction activities would not occur.

As described above, operation of the proposed project would also not result in inadequate emergency access. Direct access to the project site would be provided from Pioneer Boulevard. The driveways and on-site circulation constructed by the project would be evaluated through the City's permitting procedures to meet the City's design standards that provides adequate turning space for passenger cars, fire trucks, and delivery trucks. The project is also required to provide fire suppression facilities (e.g., hydrants and sprinklers). The Santa Fe Springs Fire Department would review the development plans as part of the plan check and permitting procedures to ensure adequate emergency access pursuant to the requirements in Section 503 of the California Fire Code (Title 24, California Code of Regulations, Part 9). As a result, impacts related to inadequate emergency access would not occur.

Existing Plans, Programs, or Policies

There are no impact reducing Plans, Programs, or Policies related to transportation that are applicable to the project.

Mitigation Measure

No mitigation measures related to transportation are required.

Sources

City of Norwalk. Norwalk Transit Systems. Fares and Schedules. Available at: https://www.norwalk.org/city-hall/departments/norwalk-transit-system-nts/fares-schedules

Los Angeles County Metropolitan Transportation Authority (LA Metro). Maps & Timetables. Metro Local Line 62. Available at: https://media.metro.net/documents/4e3d8753-426a-4447-8d5e-e12952103ea5.pdf

Trip Generation and Level of Service Analysis, prepared by EPD Solutions, Inc. (EPD 2019) (Appendix J).

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
18. TRIBAL CULTURAL RESOURCES.				
Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?	☐	☐	☐	☒
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?	☐	☒	☐	☐

a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?

No Impact. The project site was historically used for oil extraction and is currently developed with modern structures and does not contain any historical resources. In addition, substantial ground disturbance has occurred on the project site from previous uses such as oil fields and the construction of the existing uses. The project site is not eligible for listing in the California Register of Historical Resources, or in a local register of historical resources. The proposed project would not result in an impact to a historical resource.

b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?

Less than Significant Impact with Mitigation Incorporated.

Assembly Bill 52

Chapter 532, Statutes of 2014 (Assembly Bill [AB] 52), requires that Lead Agencies evaluate a project's potential to impact "tribal cultural resources." Such resources include "[s]ites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are eligible for inclusion in the California Register of Historical Resources or included in a local register of historical resources." AB 52 also gives lead agencies the discretion to determine, supported by substantial evidence, whether a resource qualifies as a "tribal cultural resource." Also, per AB 52 (specifically PRC 21080.3.1), Native American consultation is required upon request by a California Native American tribe that has previously requested that the City provide it with notice of such projects.

A search of the Sacred Lands File (SLF) was requested for the project by the Native American Heritage Commission (NAHC). The NAHC responded on July 24, 2019 stating that there are no known/known sacred lands within 0.5 mile of the project site. Pursuant to the requirements of AB 52, the City sent informational letters about the proposed project and requests for consultation to each tribe on the City's list of tribes requesting consultation on July 8, 2019. These tribes include the following: Gabrielino-Tongva Tribe, Gabrielino Band of Mission Indians – Kizh Nation, Gabrielino Tongva – San Gabriel Band of Mission Indians, Gabrielino Tongva – San Gabriel California Tribal Council, and Gabrielino/Tongva Nation.

On July 15, 2019, the City received an e-mailed response to the City's AB 52 outreach letters, which was from the Gabrieleno Band of Mission Indians stating that the subject site is within their Ancestral Tribal Territory and thus had requested that a consultation be scheduled to go over the project and surrounding location in further detail. Said consultation occurred over-the-phone on September 4, 2019, and information was presented that the project site is within an area believed to occupy the ancient Santa Fe trail and given the 1970's era development, concluded with the understanding that the tribe Chairman, Andy Salas, would provide the lead agency (City of Santa Fe Springs) with suggested mitigation measures. On October 1, 2019, the City received mitigations measures from the tribe Chairman and Mitigation Measure TCR-1 has been included tribal monitoring of initial site clearing (such as pavement removal, grubbing, tree removals) ground-disturbing activities that cause excavation to depths greater than artificial fill into previously undisturbed soils.

As described above, the project does not contain any historic structures and project area has a low sensitivity for the presence of prehistoric or historical archaeological resources. In addition, the entire parcel has been disturbed from previous oil extraction and development uses. Furthermore, the NAHC has not identified any known sacred lands within 0.5 mile of the project area. Additionally, as described previously (and included as PPP CUL-1), California Health and Safety Code, Section 7050.5 requires that if human remains are discovered in the project site, disturbance of the site shall halt and remain halted until the coroner has conducted an investigation. If the coroner determines that the remains are those of a Native American, he or she shall contact, by telephone within 24 hours, the Native American Heritage Commission. However, as described previously, Mitigation Measure CUL-1 has been included to provide procedures to be followed in the event that potential resources are discovered during grading, excavation, or construction activities. As detailed previously, if the discovered resource(s) appears Native American in origin, a Native American Monitor shall be contacted to evaluate any potential tribal cultural resource(s) and shall have the opportunity to consult on appropriate treatment and curation of these resources. Thus, impacts related to California Native American tribes would be less than significant with implementation of Mitigation Measure CUL-1 and TCR-1.

Existing Plans, Programs, or Policies

PPP CUL-1: Human Remains. Listed previously in Section 5, Cultural Resources.

Mitigation Measures

Mitigation Measure CUL-1: Inadvertent Discoveries. Listed previously in Section 5, Cultural Resources.

Mitigation Measure TCR-1: Native American Monitor. Prior to the issuance of any permits for initial site clearing (such as pavement removal, grubbing, tree removals) or issuance of permits allowing ground-disturbing activities that cause excavation to depths greater than artificial fill (including as boring, grading, excavation, drilling, potholing or auguring, and trenching), the City of Santa Fe Springs shall ensure that the project applicant/developer retain qualified Native American Monitor(s) during construction-related ground disturbance activities. The monitor(s) shall be approved by the tribal representatives of the Gabrieleño Band of Mission Indians - Kizh Nation and be present on-site during construction that involve ground disturbing activities identified herein. The Native American monitor(s) shall be responsible for the following activities during the monitoring, as appropriate:

- Complete monitoring logs on a daily basis, providing descriptions of the daily activities, including construction activities, locations, soil, and any cultural materials identified.
- The on-site monitoring shall end when the project site grading and excavation activities are completed, or when the tribal representatives and monitor have indicated that the site has a low potential for tribal cultural resources.
- Upon discovery, the tribal and/or archaeological monitor/consultant/consultant shall immediately divert work a minimum of 150 feet and place an exclusion zone around the burial. The monitor/consultant(s) shall then notify the tribe, the qualified lead archaeologist, and the construction manager who shall call the coroner.
- Work will continue to be diverted while the coroner determines whether the remains are Native American. The discovery is to be kept confidential and secure to prevent any further disturbance. If the finds are determined to be Native American, the coroner will notify the NAHC, as mandated by state law, who will then appoint a Most Likely Descendent (MLD).
- If the Gabrieleño Band of Mission Indians - Kizh Nation is designated MLD, the following treatment measures shall be implemented.
- Prior to the continuation of ground-disturbing activities, the landowner shall arrange a designated site location within the footprint of the project for the respectful reburial of the human remains and/or ceremonial objects.
- In the case where discovered human remains cannot be fully documented and recovered on the same day, the remains shall be covered with muslin cloth and a steel plate that can be moved by heavy equipment placed over the excavation opening to protect the remains. If this type of steel plate is not available, a 24-hour guard should be posted outside of working hours.
- The tribe shall make every effort to recommend diverting the project and keeping the remains in situ and protected. If the project cannot be diverted, it may be determined that the burials will be removed. The tribe will work closely with the qualified archaeologist to ensure that the excavation is treated carefully, ethically and respectfully.
- If data recovery is approved by the tribe, documentation shall be taken that includes, at a minimum, detailed descriptive notes and sketches. Additional types of documentation shall be approved by the tribe for data recovery purposes.
- Cremations will either be removed in bulk or by means as necessary to ensure completely recovery of all material. If the discovery of human remains includes

- Each occurrence of human remains and associated funerary objects shall be stored using opaque cloth bags. All human remains, funerary objects, sacred objects, and objects of cultural patrimony will be removed to a secure container on site if possible. These items should be retained and reburied within six months of recovery. The site of reburial/repatriation shall be on the Project Site but at a location agreed upon between the tribe and the landowner at a site to be protected in perpetuity. There shall be no publicity regarding any cultural materials recovered.

Sources

Governor's Office of Planning and Research (OPR 2005). Tribal Consultation Guidelines, Supplement to General Plan Guidelines. November 14, 2005. Available at: http://nahc.ca.gov/wp-content/uploads/2019/04/SB-18-Tribal-Consultation-Guidelines.pdf

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
19. UTILITIES AND SERVICE SYSTEMS. Would the project:				
a) Require or result in the relocation or construction of new or expanded water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	☐	☐	☒	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☒	☐
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
d) Generate solid waste in excess of State or local standards or in excess of the capacity of local infrastructure or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☐	☒

a) Require or result in the relocation or construction of new or expanded water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

Less than Significant Impact.

Water Infrastructure

The proposed project is within an urbanized, developed area of Santa Fe Springs. An existing 12-inch water line runs north-south along Pioneer Boulevard, which is adjacent to the project site. The project would install new onsite domestic water and fire service lines that would connect to the existing line in Pioneer Boulevard. Because the site has been planned for operation of industrial uses, the water line has been planned to accommodate development of the project site and would not require expansion to serve the proposed project.

Therefore, although construction of the onsite water lines would be required to support the new development, no extensions or expansions to the water pipelines supplying the project site would be required. The necessary installation of the onsite water supply line is included as part of the proposed project and would not result in any physical environmental effects beyond those identified in other sections of this IS/MND. Thus, the proposed project would not result in the construction of

new water facilities or expansion of existing facilities that serve the project area, the construction of which could cause significant environmental effects, and impacts would be less than significant.

Wastewater Treatment
The project would install onsite sewer lines that would connect to an existing 8-inch sewer line located in Pioneer Boulevard, which is adjacent to the project site. Because the site has been planned for operation of industrial uses, the water line has been planned to accommodate development of the project site and would not require expansion to serve the proposed project. The necessary installation of the onsite sewer line is included as part of the proposed project and would not result in any physical environmental effects beyond those identified in other sections of this IS/MND.

Stormwater Drainage
The project would maintain the existing stormwater flow pattern. The project would install new onsite storm drains that would convey runoff to biofiltration basins along the western side of the site or biofiltration chambers along the eastern side of the site. After biofiltration runoff would drain into the existing offsite 42-inch storm drain line.

Because the site is currently developed with impervious surfaces, and the biofiltration basins and chambers have been sized to accommodate required flows, the proposed project would not result in a substantial increase stormwater runoff. Thus, the project would not require or result in the construction of new offsite stormwater drainage facilities or expansion of existing offsite facilities, the construction of which could cause significant environmental effects. The required installation of onsite drainage features is included as part of the proposed project and would not result in any physical environmental effects beyond those identified in other sections of this IS/MND. Overall, impacts related to stormwater drainage facilities would be less than significant.

b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

Less than Significant Impact. According to the City of Santa Fe Springs 2015 Urban Water Management Plan (UWMP), the City receives water supplies from local groundwater pumped from city wells, treated groundwater through the Central Basin Water Quality Protection Program (CBWQPP), treated imported water purchased from the Metropolitan Water District (MWD) through the Central Basin Municipal Water District (CBMWD), and recycled water supplies (UWMP 2017). In 2015, the City utilized a total of 6,369 acre-feet per year (afy) of water, which included: 2,716 afy of groundwater treated by CBWQPP, 2,714 afy of imported water from MWD, and 939 afy of recycled water from CBMWD.

The UWMP projects that the water supply mix will remain similar through 2040, with an increase in recycled water and groundwater to cover the incremental increased demand for water related to anticipated growth within the City. The City's water demand in 2015 was 6,369 acre-feet and is projected to increase to 7,351 AFY by 2040 (UWMP 2017).

The proposed project would be consistent with existing land use and growth projections that are included in the UWMP projections; and thus, is included in the UWMP projections and EMWD would be able to meet all of the anticipated water supply needs. Therefore, the proposed project would have sufficient water supplies available to serve the project, and impacts would be less than significant.

c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Less than Significant Impact. The proposed building would generate wastewater flows, which would be conveyed through existing sewer facilities to the Los Coyotes Water Reclamation Plant (WRP). The Los Coyotes WRP provides primary, secondary, and tertiary treatment and has a capacity to treat up to 37.5 million gallons per day (UWMP 2017). The UWMP determines capacity of existing wastewater facilities within the Los Angeles County Sanitation District based on land use designations and generation rates thereof. The proposed project would not result in change of land use. Therefore, the Los Coyotes WRP would be able to accommodate the wastewater flow from the project, and impacts related to the wastewater treatment system would be less than significant.

d) Generate solid waste in excess of State or local standards or in excess of the capacity of local infrastructure or otherwise impair the attainment of solid waste reduction goals?

Less than Significant Impact. In 2018, most of the solid waste from the City, which was disposed of in landfills, went to either the Olinda Alpha Sanitary Landfill, El Sobrante Landfill, or Sunshine Canyon Landfill (CalRecycle 2019a).

The Olinda Alpha Sanitary Landfill is permitted to accept 8,000 tons per day of solid waste and is permitted to operate through 2021. The El Sobrante Landfill is permitted to accept 16,054 tons per day of solid waste and is permitted to operate through 2051. In June 2019, a maximum of 13,796 tons in a day was disposed at the El Sobrante Landfill, which provides for a remaining capacity of 2,258 tons per day. The Sunshine Canyon Landfill is permitted to accept 12,100 tons per day of solid waste and is permitted to operate through 2037, and the CalRecycle monthly reports indicate that it is operating within the permitting capacity limits (CalRecycle 2019b).

The proposed project would include the demolition of 157,669 square feet of existing building space that would result debris. In addition, solid waste would be generated from construction materials and packaging used on the site. However, construction would only occur over an estimated 14-month period and a large volume of the waste would be recycled. The project would be required to comply with the City Municipal Code Chapter 50.64, Compliance with Waste Management Plan, (included as PPP UT-1) which states that 75 percent of construction and demolition debris must be diverted via reuse or recycling. The landfills described previously have the permitted capacity to accommodate the projected amount of debris estimated to be generated by the project during demolition and construction.

Based on a solid waste generation of 1.42 pounds per 100 square feet per day, identified in the CalRecycle Solid Waste Information System Database, operation of 163,518 square feet of light industrial building space would generate approximately 2,321 pounds per day, or 11,605 pounds (5.80 tons) of solid waste per week (based on a five-day work week) (CalRecycle 2019c).

However, based on the current recycling requirements, which require diversion of 50 percent of solid waste away from landfills, the project would result in an increase of 1,160.5 pounds of solid waste per day being disposed of in landfills. In 2020, state regulations per AB 341 will become effective, which will require diversion of 75 percent of solid waste from landfills. Thus, it is anticipated that the increase of solid waste landfill disposal from operation of the project in 2020 would be approximately 580.25 pounds per day. As described above, the El Sobrante Landfill has an average daily additional capacity of 2,258 tons per day and the Sunshine Canyon Landfill

is permitted to accept 12,100 tons per day of solid waste (CalRecycle 2019b). Therefore, the existing landfills have sufficient permitted capacity to accommodate the additional solid waste disposal needs that would result from the project, and impacts related to landfill capacity would be less than significant.

e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

No Impact. The project would comply with all federal, state, and local statutes and regulation related to solid waste. The project would consist of short-term construction activities (with short-term waste generation limited to minor quantities of construction debris). Solid wastes produced during operation of the project would be disposed of in accordance with all applicable statutes and regulations. Accordingly, anticipated impacts from the proposed project related to landfill capacity and compliance with applicable regulations would be less than significant.

Existing Plans, Programs, or Policies

PPP UT-1: Solid Waste. As required by Municipal Code Chapter 50.64, prior to the completion of any covered project, the applicant shall submit to the Waste Management Plan Compliance Official documentation that the diversion requirement has been met. The diversion requirement shall be that the applicant has diverted at least 75 percent of the total construction and demolition debris generated by the project via reuse or recycling.

Mitigation Measures

No mitigation measures related to utilities and service systems are required.

Sources

CalRecycle (Calrecycle 2019a). Local Government Information Center. Jurisdiction Disposal by Facility. Los Angeles County, Santa Fe Springs, 2019. Available at: https://www2.calrecycle.ca.gov/LGCentral/DisposalReporting/Destination/DisposalByFacility

CalRecycle (CalRecycle 2019b). Solid Waste Information System Facility/Site Search. Available at: https://www2.calrecycle.ca.gov/SWFacilities/Directory/

CalRecycle (CalRecycle 2019c). Estimated Solid Waste Generation Rates. Available at: https://www2.calrecycle.ca.gov/WasteCharacterization/General/Rates

City of Santa Fe Springs Urban Water Management Plan (UWMP 2017). Accessed: https://www.santafesprings.org/civicax/filebank/blobdload.aspx?blobid=12521

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
20. WILDFIRES. If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☒
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☐	☒
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☒

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

No Impact. According to Figure 12.5, *Fire Hazard Severity Zones Policy Map*, of the Los Angeles County General Plan, the City of Santa Fe Springs (including the project site) is not within a Very High Fire Hazard zone (Los Angeles County 2015). Direct access to the project site would be provided from three separate driveways along Pioneer Boulevard. The project is required to design and construct internal access and provide fire suppression facilities (e.g., hydrants and sprinklers) in conformance with the City's Municipal Code, and the Fire Department would review the development plans prior to approval to ensure adequate emergency access pursuant to the requirements in Section 503 of the California Fire Code (Title 24, California Code of Regulations, Part 9, included in the City's Municipal Code (Chapter 93.01, Adoption of California Fire Code and Other Recognized Standards). As a result, the proposed project would not impair an adopted emergency response plan or emergency evacuation plan, and impacts would be less than significant.

b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

No Impact. As described in the previous response, the project site is not located within a Very High Fire Hazard Severity Zone. The areas within the project's vicinity also do not contain hillsides or other factors that could exacerbate wildfire risks. Therefore, no impact would occur.

c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

No Impact. As described in the previous responses, the project site is not within a Very High Fire Hazard Severity Zone. The project site is located within an urbanized area within the City of Santa Fe Springs. The project does not involve any new infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risks or result in other impacts to the environment. Therefore, no impacts would occur.

d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

No Impact. As described in the previous responses, the project site is not within a Very High Fire Hazard Severity Zone. In addition, adjacent areas to the project site are relatively flat urban sites and do not contain hillsides or other factors that would expose people or structures to flooding or landslides as a result of runoff, post-fire slope instability, or drainage changes. In addition, the project would not generate large slopes and would connect to existing drainage facilities. Thus, the project would not result in risks related to wildfires or risks related to downslope or downstream flooding or landslides after wildfires. Therefore, impacts would not occur.

Existing Plans, Programs, or Policies

There are no impact reducing Plans, Programs, or Policies related to wildfires that are applicable to the Project.

Mitigation Measures

No mitigation measures related to wildfires are required.

Sources

Los Angeles County Department of Regional Planning (Los Angeles County 2015). General Plan 2035. Figure 12.5, Fire Hazard Severity Zones Policy Map. Adopted October 6, 2015. Available at: http://planning.lacounty.gov/assets/upl/project/gp_2035_2014-FIG_12-5_Fire_Hazard_Severity_Zones_Policy_Map_Responsibility.pdf

21. MANDATORY FINDINGS OF SIGNIFICANCE.	**Potentially Significant Impact**	**Less Than Significant with Mitigation Incorporated**	**Less Than Significant Impact**	**No Impact**
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☒	☐	☐
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☐	☒	☐
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Less than Significant with Mitigation Incorporated. As discussed in previous sections of this IS/MND, the project site is currently developed with 149,605 square feet of business park and 8,064 square feet of general office building uses. There are no special status vegetation types or wildlife species, nor suitable habitat located on or adjacent to the project site. However, the project site contains ornamental trees that could be used for nesting by common bird species that are protected by the federal MBTA and the California Fish and Game Code Sections 3503.5, 3511, and 3515. These bird species are protected during the avian nesting and breeding season, which occurs between February 1 and September 15. Therefore, Mitigation Measure BIO-1 has been included to require a nesting bird survey if construction commences during nesting season. Mitigation Measure BIO-1 would reduce potential impacts to a less than significant level.

The site does not contain any historic resources, and the potential for the project site to contain any archaeological resources is low. However, Mitigation Measure CUL-1 has been included to provide procedures to be followed in the event that potential archaeological resources are discovered during grading, excavation, or construction activities. With implementation of Mitigation Measure CUL-1, impacts related to important examples of the major periods of California history or prehistory would be less than significant.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

Less than Significant Impact. The project would redevelop an existing business park and office complex with three new concrete tilt-up industrial buildings. As described above, all of the potential impacts related to implementation of the project would be less than significant or reduced to a less than significant level with implementation of mitigation measures and existing plans, programs, or policies that are imposed by the City and effectively reduce environmental impacts.

The cumulative effect of the proposed project taken into consideration with these other development projects in the area would be limited, because the project would is consistent with the City's General Plan and Municipal Code and would not result in substantial effects to any environmental resource topic, as described throughout this document. Thus, impacts to environmental resources or issue areas would not be cumulatively considerable; and cumulative impacts would be less than significant.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Less than Significant with Mitigation Incorporated. The project consists of redevelopment of an existing developed site. The project would not consist of any use or any activities that would result in a substantial negative effect on any persons in the vicinity. All resource topics associated with the project have been analyzed in accordance with CEQA and the CEQA Guidelines and were found to pose no impacts, less than significant impacts, or less than significant impacts with mitigation, as previously detailed. Consequently, the project would not result in any environmental effects that would cause substantial adverse effects on human beings directly or indirectly, with implementation of the mitigation measures that have been previously detailed.

5 MITIGATION MONITORING AND REPORTING PROGRAM

5.1 INTRODUCTION

The California Environmental Quality Act (CEQA) requires a lead or public agency that approves or carries out a project for which a Mitigated Negative Declaration has been certified which identifies one or more significant adverse environmental effects and where findings with respect to changes or alterations in the project have been made, to adopt a "…reporting or monitoring program for the changes to the project which it has adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment" (CEQA, Public Resources Code Sections 21081, 21081.6).

A Mitigation Monitoring and Reporting Program (MMRP) is required to ensure that adopted mitigation measures are successfully implemented for the Pioneer Boulevard Development Project (project). The City of Santa Fe Springs is the Lead Agency for the project and is responsible for implementation of the MMRP. This MMRP identifies the parties that will be responsible for monitoring implementation of the individual mitigation measures.

5.2 MITIGATION MONITORING AND REPORTING PROGRAM

The mitigation monitoring and reporting program has been prepared in compliance with Public Resource Code Section 21081.6. It describes the requirements and procedures to be followed by the City to ensure that all mitigation measures adopted as part of the proposed Project would be carried out as described in the IS/MND. This MMRP for the project will be active through all phases of the project, including design, construction, and operation.

Table 5-1 identifies project specific mitigation measures required by the City to mitigate or avoid significant adverse impacts associated with the implementation of the project, the timing of implementation, and the responsible party or parties for monitoring compliance. This MMRP also includes a column that will be used by the compliance monitor (individual responsible for monitoring compliance) to document when implementation of the measure is completed.

TABLE 5-1
MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure Number	Measure	Timing	Responsibility for Oversight of Compliance/ Verification	Completion
BIO-1	**Migratory Bird Treaty Act.** Prior to commencement of grading activities and issuance of any building permits, the City Building Department shall verify that in the event that vegetation and tree removal activities occur within the active breeding season for birds (February 1–September 15), the project applicant (or their Construction Contractor) shall retain a qualified biologist (meaning a professional biologist that is familiar with local birds and their nesting behaviors) to conduct a nesting bird survey no more than 3 days prior to commencement of construction activities. The nesting survey shall include the project site and areas immediately adjacent to the site that could potentially be affected by project-related construction activities, such as noise, human activity, and dust, etc. If active nesting of birds is observed within 100 feet of the designated construction area prior to construction, the qualified biologist shall establish an appropriate buffer around the active nests (e.g., as much as 500 feet for raptors and 300 feet for non-raptors [subject to the recommendations of the qualified biologist]), and the buffer areas shall be avoided until the nests are no longer occupied and the juvenile birds can survive independently from the nests.	Prior to commencement of grading activities	City Building Department	
CUL-1	**Inadvertent Discoveries.** Prior to commencement of grading activities, the City of Santa Fe Springs Building Department shall verify that all project grading and construction plans and specifications state that in the event that potential archaeological resources are discovered during excavation, grading, or construction activities, work shall cease within 50 feet of the find until a qualified archaeologist from the City or County List of Qualified Archaeologists has evaluated the find to determine whether the find constitutes a "unique archaeological resource," as defined in Section 21083.2(g) of the California Public Resources Code. Any resources identified shall be treated in accordance with California Public Resources Code Section 21083.2(g). If the discovered resource(s) appears Native American in origin, a Native American Monitor shall be contacted to evaluate any potential tribal cultural resource(s) and shall have the opportunity to consult on appropriate treatment and curation of these resources.	Prior to commencement of grading activities	City Planning/Building Department	

TABLE 5-1
MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure Number	Measure	Timing	Responsibility for Oversight of Compliance/ Verification	Completion
PAL-1	**Paleontological Resources.** Prior to issuance of a grading permit, the City of Santa Fe Springs Building Department shall verify that all project grading and construction plans and specifications state that in the event that potential paleontological resources are discovered during excavation, grading, or construction activities, work shall cease within 50 feet of the find until a qualified paleontologist (i.e., a practicing paleontologist that is recognized in the paleontological community and is proficient in vertebrate paleontology) from the City or County List of Qualified Paleontologists has evaluated the find in accordance with federal and state regulations. Construction personnel shall not collect or move any paleontological materials and associated materials. If any fossil remains are discovered, the paleontologist shall make a recommendation if monitoring shall be required for the continuance of earth moving activities.	Prior to issuance of a grading permit	City Planning/Building Department	
HAZ-1	**Soil Management Plan.** The Applicant shall retain a qualified environmental consultant to prepare a Soil Management Plan (SMP) prior to issuance of a grading permit that shall detail procedures and protocols for onsite management of soils containing potentially hazardous materials. The SMP would be implemented during grading activities onsite to ensure that soils containing residual levels of hydrocarbons or arsenic are properly identified, monitored, and managed onsite, and include the following: • A certified hazardous waste hauler shall remove all potentially hazardous soils. In addition, sampling of soil shall be conducted during excavation to ensure that all petroleum hydrocarbon and arsenic impacted soils are removed, and that Environmental Screening Levels (ESLs) for non-residential uses are not exceeded. Excavated materials shall be transported per California Hazardous Waste Regulations to a landfill permitted by the state to accept hazardous materials. • Any subsurface materials exposed during construction activities that appear suspect of contamination, either from visual staining or suspect odors, shall require immediate cessation of excavation activities. Soils suspected of contamination shall be tested for potential contamination. If contamination is found to be present per the Department of Toxic Substances Control	Prior to issuance of a grading permit	City Building Department	

TABLE 5-1
MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure Number	Measure	Timing	Responsibility for Oversight of Compliance/ Verification	Completion
	Screening Levels for industrial/commercial land use (DTSC-SLi) and the EPA Regional Screening Levels for industrial/commercial land use (EPA-RSLi), it shall be transported and disposed of per state regulations to an appropriately permitted landfill. • The SMP shall include a Health and Safety Plan (HSP) addresses potential safety and health hazards and includes the requirements and procedures for employee protection; each contractor will be required to have their own HSP tailored to their particular trade that addresses the general project safety requirements. The HSP shall also outline proper soil handling procedures and health and safety requirements to minimize worker and public exposure to hazardous materials during construction. • The SMP shall be prepared and executed in accordance with South Coast Air Quality Management District (SCAQMD) Rule 1166, Volatile Organic Compound Emissions from Decontamination of Soil. The SMP shall require the timely testing and sampling of soils so that contaminated soils can be separated from inert soils for proper disposal. The SMP shall specify the testing parameters and sampling frequency. Anticipated testing includes total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs). During excavation, Rule 1166 requires that soils identified as contaminated shall be sprayed with water or another approved vapor suppressant, or covered with sheeting during periods of inactivity of greater than an hour, to prevent contaminated soils become airborne. Under Rule 1166, contaminated soils shall be transported from the project site by a licensed transporter and disposed of at a licensed storage/treatment facility to prevent contaminated soils from becoming airborne or otherwise released into the environment. • All SMP measures shall be printed on the construction documents, contracts, and project plans prior to issuance of grading permits.			
TCR-1	**Native American Monitor**. Prior to the issuance of any permits for initial site clearing (such as pavement removal, grubbing, tree removals) or issuance of permits allowing			

TABLE 5-1
MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure Number	Measure	Timing	Responsibility for Oversight of Compliance/ Verification	Completion
	ground-disturbing activities that cause excavation to depths greater than artificial fill (including as boring, grading, excavation, drilling, potholing or auguring, and trenching), the City of Santa Fe Springs shall ensure that the project applicant/developer retain qualified Native American Monitor(s) during construction-related ground disturbance activities. The monitor(s) shall be approved by the tribal representatives of the Gabrieleno Band of Mission Indians - Kizh Nation and be present on-site during construction that involve ground disturbing activities identified herein. The Native American monitor(s) shall be responsible for the following activities during the monitoring, as appropriate: • Complete monitoring logs on a daily basis, providing descriptions of the daily activities, including construction activities, locations, soil, and any cultural materials identified. • The on-site monitoring shall end when the project site grading and excavation activities are completed, or when the tribal representatives and monitor have indicated that the site has a low potential for tribal cultural resources. • Upon discovery, the tribal and/or archaeological monitor/consultant/consultant shall immediately divert work a minimum of 150 feet and place an exclusion zone around the burial. The monitor/consultant(s) shall then notify the tribe, the qualified lead archaeologist, and the construction manager who shall call the coroner. • Work will continue to be diverted while the coroner determines whether the remains are Native American. The discovery is to be kept confidential and secure to prevent any further disturbance. If the finds are determined to be Native American, the coroner will notify the NAHC, as mandated by state law, who will then appoint a Most Likely Descendent (MLD). • If the Gabrieleno Band of Mission Indians - Kizh Nation is designated MLD, the following treatment measures shall be implemented. • Prior to the continuation of ground-disturbing activities, the landowner shall arrange a designated site location within the footprint of the project for the respectful reburial of the human remains and/or ceremonial objects. • In the case where discovered human remains cannot be fully documented and recovered on the same day, the remains shall be covered with muslin cloth and			

TABLE 5-1
MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure Number	Measure	Timing	Responsibility for Oversight of Compliance/ Verification	Completion
	a steel plate that can be moved by heavy equipment placed over the excavation opening to protect the remains. If this type of steel plate is not available, a 24-hour guard should be posted outside of working hours. • The tribe shall make every effort to recommend diverting the project and keeping the remains in situ and protected. If the project cannot be diverted, it may be determined that the burials will be removed. The tribe will work closely with the qualified archaeologist to ensure that the excavation is treated carefully, ethically and respectfully. • If data recovery is approved by the tribe, documentation shall be taken that includes, at a minimum, detailed descriptive notes and sketches. Additional types of documentation shall be approved by the tribe for data recovery purposes. • Cremations will either be removed in bulk or by means as necessary to ensure completely recovery of all material. If the discovery of human remains includes Each occurrence of human remains and associated funerary objects shall be stored using opaque cloth bags. All human remains, funerary objects, sacred objects, and objects of cultural patrimony will be removed to a secure container on site if possible. These items should be retained and reburied within six months of recovery. The site of reburial/repatriation shall be on the Project Site but at a location agreed upon between the tribe and the landowner at a site to be protected in perpetuity. There shall be no publicity regarding any cultural materials recovered			

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Attachment 6 – MND Appendices

PIONEER BOULEVARD DEVELOPMENT PROJECT

IS/MND TECHNICAL APPENDICES

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March 2020

APPENDIX A: AIR QUALITY ANALYSIS

Pioneer Boulevard Development

AIR QUALITY IMPACT ANALYSIS

CITY OF SANTA FE SPRINGS

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TABLE OF CONTENTS

TABLE OF CONTENTS ..... **I**
APPENDICES ..... **II**
LIST OF EXHIBITS ..... **II**
LIST OF TABLES ..... **II**
LIST OF ABBREVIATED TERMS ..... **III**
EXECUTIVE SUMMARY **1**

ES.1 Summary of Findings 1
ES.2 Standard Regulatory Requirements/Best Available Control Measures 1
ES.3 Construction-Source Mitigation Measures 2
ES.4 Operational-Source Mitigation Measures 2

1 INTRODUCTION **4**

1.1 Site Location 4
1.2 Project Study Area 4
1.3 Project Description 4

2 AIR QUALITY SETTING **8**

2.1 South Coast Air Basin 8
2.2 Regional Climate 8
2.3 Wind Patterns and Project Location 9
2.4 Criteria Pollutants 10
2.5 Existing Air Quality 17
2.6 Regional Air Quality 20
2.7 Local Air Quality 20
2.8 Regulatory Background 21
2.9 Regional Air Quality Improvement 25
2.10 Existing Project Site Air Quality Conditions 34

3 PROJECT AIR QUALITY IMPACT **38**

3.1 Introduction 38
3.2 Standards of Significance 38
3.3 California Emissions Estimator Model™ Employed to Estimate AQ Emissions 39
3.4 Construction Emissions 40
3.5 Operational Emissions 43
3.6 Localized Significance - Construction Activity 46
3.7 Localized Significance – Long-Term Operational Activity 51
3.8 CO “Hot Spot” Analysis 52
3.9 Air Quality Management Planning 54
3.10 Potential Impacts to Sensitive Receptors 56
3.11 Odors 56
3.12 Cumulative Impacts 57

4 REFERENCES **60**
5 CERTIFICATION **64**

APPENDICES

APPENDIX 2.1: STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS
APPENDIX 3.1: CALEEMOD CONSTRUCTION (UNMITIGATED) EMISSIONS MODEL OUTPUTS
APPENDIX 3.2: CALEEMOD OPERATIONS (PASSENGER CARS) EMISSIONS MODEL OUTPUTS
APPENDIX 3.3: CALEEMOD OPERATIONS (TRUCKS) EMISSIONS MODEL OUTPUTS
APPENDIX 3.4: CALEEMOD EXISTING DEVELOPMENT OPERATIONS EMISSIONS MODEL OUTPUTS

LIST OF EXHIBITS

EXHIBIT 1-A: LOCATION MAP 5
EXHIBIT 1-B: SITE PLAN 6
EXHIBIT 2-A: CALIFORNIA TOXIC AIR CONTAMINANT SITES 32
EXHIBIT 2-B: DIESEL PARTICULATE MATTER AND DIESEL VEHICLE MILES TREND 33

LIST OF TABLES

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS 1
TABLE 2-1: CRITERIA POLLUTANTS 10
TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (1 OF 2) 18
TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (2 OF 2) 19
TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB 20
TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2016-2018 21
TABLE 2-5: SCAB O_3 TREND 26
TABLE 2-6: SCAB AVERAGE 24-HOUR CONCENTRATION PM_{10} TREND (BASED ON FEDERAL STANDARD) [1] 27
TABLE 2-7: SCAB ANNUAL AVERAGE CONCENTRATION PM_{10} TREND (BASED ON STATE STANDARD)[1] 27
TABLE 2-8: SCAB 24-HOUR AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON FEDERAL STANDARD)[1] 28
TABLE 2-9: SCAB ANNUAL AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON STATE STANDARD)[1] 28
TABLE 2-10: SCAB 24-HOUR AVERAGE CONCENTRATION CO TREND[1] 29
TABLE 2-11: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON FEDERAL STANDARD) 30
TABLE 2-12: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON STATE STANDARD) ... 31
TABLE 2-13: EMISSIONS FROM EXISTING DEVELOPMENT 35
TABLE 3-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS 38
TABLE 3-2: CONSTRUCTION DURATION 41
TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2) 41
TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 2) 42
TABLE 3-4: OVERALL CONSTRUCTION EMISSIONS SUMMARY (WITHOUT MITIGATION) 42
TABLE 3-5: SUMMARY OF OPERATIONAL EMISSIONS 46
TABLE 3-6 : MAXIMUM DAILY DISTURBED-ACREAGE 48
TABLE 3-7: MAXIMUM DAILY LOCALIZED EMISSIONS THRESHOLDS 50
TABLE 3-8: LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION (WITHOUT MITIGATION, 1 OF 2) 50
TABLE 3-8: LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION (WITHOUT MITIGATION, 2 OF 2) 51
TABLE 3-9: LOCALIZED SIGNIFICANCE SUMMARY OF OPERATIONS 52
TABLE 3-10: CO MODEL RESULTS 53
TABLE 3-11: TRAFFIC VOLUMES 54

LIST OF ABBREVIATED TERMS

(1)	Reference
µg/m^3	Microgram per Cubic Meter
AADT	Annual Average Daily Trips
AQ	Air Quality
AQIA	Air Quality Impact Analysis
AQMD	Air Quality Management District
AQMP	Air Quality Management Plan
BBAQMD	Bay Area Air Quality Management District
BC	Black Carbon
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CALGreen	California Green Building Standards Code
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CITY	City of Santa Fe Springs
CO	Carbon Monoxide
CY	Cubic Yards
DPM	Diesel Particulate Matter
DRRP	Diesel Risk Reduction Plan
EIR	Environmental Impact Reports
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
ETW	Equivalent Test Weight
FBMSM	Facility-Based Mobile Source Measures
GHG	Greenhouse Gas
GVWR	Goss Vehicle Weight Rating
HHDT	Heavy-Heavy-Duty Trucks
ITE	Institute of Transportation Engineers
LBS/DAY	Pounds Per Day
LDA	Light Duty Auto

LDT1/LDT2	Light-Duty Trucks
LHDT	Light-Heavy-Duty Trucks
LST	Localized Significance Threshold
MATES	Multiple Air Toxics Exposure Study
LST METHODOLOGY	Final Localized Significance Threshold Methodology
MDV	Medium-Duty Vehicles
MHDT	Medium-Heavy-Duty Trucks
MM	Mitigation Measures
NAAQS	National Ambient Air Quality Standards
NCHRP	National Cooperative Highway Research Program
NO_2	Nitrogen Dioxide
NO_X	Nitrogen Oxides
NOP	Notice of Preparation
O_3	Ozone
OBD-II	On-Board Diagnostic
Pb	Lead
PM_{10}	Particulate Matter 10 microns in diameter or less
$PM_{2.5}$	Particulate Matter 2.5 microns in diameter or less
POLA	Port of Los Angeles
POLB	Port of Long Beach
PPM	Parts Per Million
Project	Pioneer Boulevard Development
RECLAIM	Regional Clean Air Incentives Market
RFG-2	Reformulated Gasoline Regulation
ROG	Reactive Organic Gases
RTP/SCS	Regional Transportation Plan/ Sustainable Communities Strategy
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SF	Square Feet
SIPs	State Implementation Plans
SO_2	Sulfur Dioxide
SP	Specific Plan
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TIA	Traffic Impact Analysis

TOG	Total Organic Gases
TSF	Thousand Square Feet
UFP	Ultra Fine Particles
URBEMIS	Urban Emissions
UTRs	Utility Tractors
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
VPH	Vehicles Per Hour

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Pioneer Boulevard Development Air Quality Impact Analysis* are summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA before and after any required mitigation measures described below.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Regional Construction Emissions	3.4	*Less Than Significant*	*n/a*
Localized Construction Emissions	3.6	*Less Than Significant*	*n/a*
Regional Operational Emissions	3.5	*Less Than Significant*	*n/a*
Localized Operational Emissions	3.7	*Less Than Significant*	*n/a*
CO "Hot Spot" Analysis	3.8	*Less Than Significant*	*n/a*
Air Quality Management Plan	3.9	*Less Than Significant*	*n/a*
Sensitive Receptors	3.10	*Less Than Significant*	*n/a*
Odors	3.11	*Less Than Significant*	*n/a*
Cumulative Impacts	3.12	*Less Than Significant*	*n/a*

ES.2 STANDARD REGULATORY REQUIREMENTS/BEST AVAILABLE CONTROL MEASURES

Measures listed below (or equivalent language) shall appear on all Project grading plans, construction specifications and bid documents, and the City shall ensure such language is incorporated prior to issuance of any development permits. South Coast Air Quality Management District (SCAQMD) Rules that are currently applicable during construction activity for this Project include but are not limited to Rule 403 (Fugitive Dust) (2) and Rule 1113 (Architectural Coatings) (3). It should be noted that these Best Available Control Measures (BACMs) are not mitigation as

they are standard regulatory requirements. As such, credit for Rule 403 and Rule 1113 have been taken.

BACM AQ-1

The contractor shall adhere to applicable measures contained in Table 1 of Rule 403 including, but not limited to (2):

- All clearing, grading, earth-moving, or excavation activities shall cease when winds exceed 25 mph per SCAQMD guidelines in order to limit fugitive dust emissions.
- The contractor shall ensure that all disturbed unpaved roads and disturbed areas within the Project are watered at least three (3) times daily during dry weather. Watering, with complete coverage of disturbed areas, shall occur at least three times a day, preferably in the mid-morning, afternoon, and after work is done for the day.
- The contractor shall ensure that traffic speeds on unpaved roads and Project site areas are limited to 15 miles per hour or less.

BACM AQ-2

The following measures shall be incorporated into Project plans and specifications as implementation of SCAQMD Rule 1113 (3):

- Only "Low-Volatile Organic Compounds (VOC)" paints (no more than 50 gram/liter of VOC) consistent with SCAQMD Rule 1113 shall be used.

ES.3 CONSTRUCTION-SOURCE MITIGATION MEASURES

The Project would not result in an exceedance of any regional or localized construction-source emissions thresholds. As such, the Project would not result in any significant impacts and no mitigation measures are required.

ES.4 OPERATIONAL-SOURCE MITIGATION MEASURES

The Project would not result in an exceedance of any regional or localized operational-source emissions thresholds. As such, the Project would not result in any significant impacts and no mitigation measures are required.

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1 INTRODUCTION

This report presents the results of the air quality impact analysis (AQIA) prepared by Urban Crossroads, Inc., for the proposed Pioneer Boulevard Development (Project). The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the proposed Project and recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the SCAQMD.

1.1 SITE LOCATION

The proposed Pioneer Boulevard Development is located at 9920 Pioneer Boulevard, in the City of Santa Fe Springs, as shown on Exhibit 1-A.

1.2 PROJECT STUDY AREA

The Project site is currently developed with 149,605 square feet (sf) business park and 8,064 sf general office building uses. The Project site is located within a developed and urban area with the City Santa Fe Springs. The surrounding land uses are described below.

- North: Immediately north of the project site are business park uses, designated as Business Park in the General Plan and zoned Limited Manufacturing (ML). A single-family residential neighborhood is to the northwest of the project site, designated as Single Family Residential in the General Plan and zoned Single Family (R-1).
- West: Adjacent to the project site are business park uses, designated as Business Park in the General Plan and zoned Limited Manufacturing (ML). Beyond the business park is a multi-family development designated as Multiple Family Residential and zoned Multiple Family – Planned Development Overlay Zone (R-3-PD).
- South: Immediately south of the project site are business park uses, designated and zoned with the same land uses as the project site: Business Park and Limited Manufacturing (ML). The City of Santa Fe Springs Civic Center is located southwest of the project site with a designation of Public Facilities by the General Plan and zoned a combination of Community Commercial (C-4), Public Facilities (PF), and Limited Manufacturing (ML) each with a Design Overlay zone.
- East: Across from the Southern Pacific railroad tracks are industrial uses, east of the project site. The General Plan designates this area as Industrial. The City zones the area as Heavy Manufacturing (M-2).

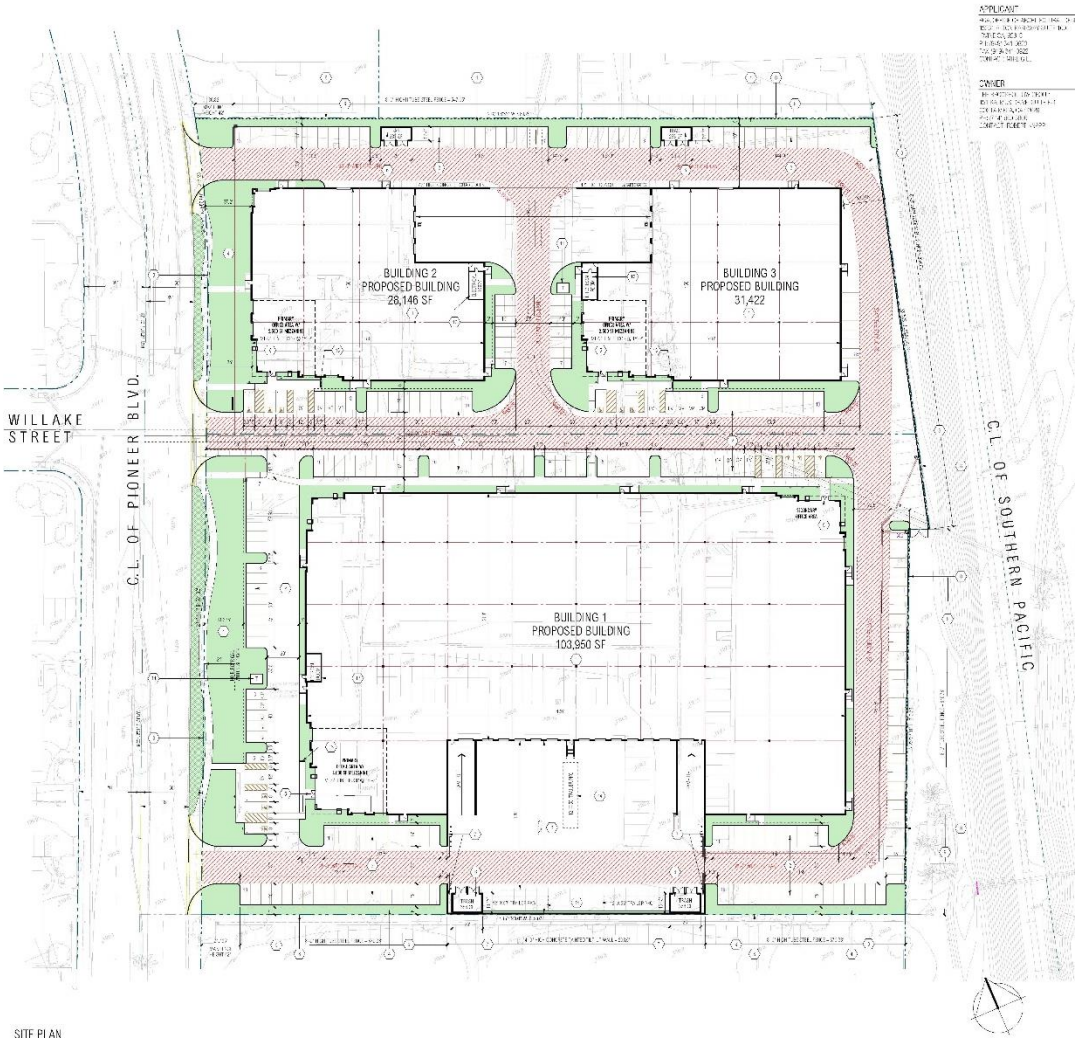
1.3 PROJECT DESCRIPTION

Exhibit 1-B illustrates the preliminary site plan. As indicated on Exhibit 1-B, the Project is proposed to consist 163,518 sf of general light industrial use within 3 buildings. The Project is anticipated to be constructed in a single phase by the year 2021. At the time this air quality analysis was prepared, the future tenants of the proposed Project were unknown. This air study is intended to describe emission impacts associated with the expected typical 24-hour, seven days per week operational activities at the Project site.

EXHIBIT 1-A: LOCATION MAP



EXHIBIT 1-B: SITE PLAN



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2 AIR QUALITY SETTING

This section provides an overview of the existing air quality conditions in the Project area and region.

2.1 SOUTH COAST AIR BASIN

The Project site is located in the SCAB within the jurisdiction of SCAQMD (4). The SCAQMD was created by the 1977 Lewis-Presley Air Quality Management Act, which merged four county air pollution control bodies into one regional district. Under the Act, the SCAQMD is responsible for bringing air quality in areas under its jurisdiction into conformity with federal and state air quality standards. As previously stated, the Project site is located within the SCAB, a 6,745-square mile subregion of the SCAQMD, which includes portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County.

The SCAB is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The Los Angeles County portion of the Mojave Desert Air Basin is bounded by the San Gabriel Mountains to the south and west, the Los Angeles / Kern County border to the north, and the Los Angeles / San Bernardino County border to the east. The Riverside County portion of the Salton Sea Air Basin is bounded by the San Jacinto Mountains in the west and spans eastward up to the Palo Verde Valley.

2.2 REGIONAL CLIMATE

The regional climate has a substantial influence on air quality in the SCAB. In addition, the temperature, wind, humidity, precipitation, and amount of sunshine influence the air quality.

The annual average temperatures throughout the SCAB vary from the low to middle 60s (degrees Fahrenheit). Due to a decreased marine influence, the eastern portion of the SCAB shows greater variability in average annual minimum and maximum temperatures. January is the coldest month throughout the SCAB, with average minimum temperatures of 47°F in downtown Los Angeles and 36°F in San Bernardino. All portions of the SCAB have recorded maximum temperatures above 100°F.

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide to sulfates is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71 percent along the coast and 59 percent inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90 percent of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to fourteen inches in

downtown Los Angeles. Monthly and yearly rainfall totals are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.

Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation is a key factor in photochemical reactions. On the shortest day of the year there are approximately 10 hours of possible sunshine, and on the longest day of the year there are approximately 14½ hours of possible sunshine.

The importance of wind to air pollution is considerable. The direction and speed of the wind determines the horizontal dispersion and transport of the air pollutants. During the late autumn to early spring rainy season, the SCAB is subjected to wind flows associated with the traveling storms moving through the region from the northwest. This period also brings five to ten periods of strong, dry offshore winds, locally termed "Santa Anas" each year. During the dry season, which coincides with the months of maximum photochemical smog concentrations, the wind flow is bimodal, typified by a daytime onshore sea breeze and a nighttime offshore drainage wind. Summer wind flows are created by the pressure differences between the relatively cold ocean and the unevenly heated and cooled land surfaces that modify the general northwesterly wind circulation over southern California. Nighttime drainage begins with the radiational cooling of the mountain slopes. Heavy, cool air descends the slopes and flows through the mountain passes and canyons as it follows the lowering terrain toward the ocean. Another characteristic wind regime in the SCAB is the "Catalina Eddy," a low level cyclonic (counterclockwise) flow centered over Santa Catalina Island which results in an offshore flow to the southwest. On most spring and summer days, some indication of an eddy is apparent in coastal sections.

In the SCAB, there are two distinct temperature inversion structures that control vertical mixing of air pollution. During the summer, warm high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. This boundary prevents vertical mixing which effectively acts as an impervious lid to pollutants over the entire SCAB. The mixing height for the inversion structure is normally situated 1,000 to 1,500 feet above mean sea level.

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter, when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as NO_X and CO from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

2.3 WIND PATTERNS AND PROJECT LOCATION

The distinctive climate of the Project area and the SCAB is determined by its terrain and geographical location. The SCAB is located in a coastal plain with connecting broad valleys and

low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.

Wind patterns across the south coastal region are characterized by westerly and southwesterly onshore winds during the day and easterly or northeasterly breezes at night. Winds are characteristically light although the speed is somewhat greater during the dry summer months than during the rainy winter season.

2.4 CRITERIA POLLUTANTS

Criteria pollutants are pollutants that are regulated through the development of human health based and/or environmentally based criteria for setting permissible levels. Criteria pollutants, their typical sources, and health effects are identified below (5):

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
CO	CO is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone, motor vehicles operating at slow speeds are the primary source of CO in the SCAB. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with oxygen transport and competing with oxygen to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for oxygen supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (oxygen deficiency) as seen at high altitudes.

Criteria Pollutant	Description	Sources	Health Effects
Sulfur Dioxide (SO_2)	SO_2 is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO_2 oxidizes in the atmosphere, it forms sulfates (SO_4). Collectively, these pollutants are referred to as sulfur oxides (SO_X)	Coal or oil burning power plants and industries, refineries, diesel engines	A few minutes of exposure to low levels of SO_2 can result in airway constriction in some asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO_2. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO_2. Animal studies suggest that despite SO_2 being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO_2 levels. In these studies, efforts to separate the effects of SO_2 from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.

Criteria Pollutant	Description	Sources	Health Effects
NO_X	NO_X consist of nitric oxide (NO), nitrogen dioxide (NO_2) and nitrous oxide (N_2O) and are formed when nitrogen (N_2) combines with oxygen (O_2). Their lifespan in the atmosphere ranges from one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. Nitrogen oxides are typically created during combustion processes and are major contributors to smog formation and acid deposition. NO_2 is a criteria air pollutant and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of nitrogen oxide compounds, NO_2 is the most abundant in the atmosphere. As ambient concentrations of NO_2 are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO_2 than those indicated by regional monitoring station.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is associated with long-term exposure to NO_2 at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO_2 in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these sub-groups. In animals, exposure to levels of NO_2 considerably higher than ambient concentrations result in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of ozone exposure increases when animals are exposed to a combination of ozone and NO_2.
Ozone (O_3)	O_3 is a highly reactive and unstable gas that is formed when VOCs and NO_X, both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. Ozone concentrations are generally	Formed when reactive organic gases (ROG) and nitrogen oxides react in the presence of sunlight. ROG sources	Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible sub-groups for ozone effects.

Criteria Pollutant	Description	Sources	Health Effects
	highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.	include any source that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and storage and pesticides.	Short-term exposure (lasting for a few hours) to ozone at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes. Elevated ozone levels are associated with increased school absences. In recent years, a correlation between elevated ambient ozone levels and increases in daily hospital admission rates, as well as mortality, has also been reported. An increased risk for asthma has been found in children who participate in multiple outdoor sports and live in communities with high ozone levels. Ozone exposure under exercising conditions is known to increase the severity of the responses described above. Animal studies suggest that exposure to a combination of pollutants that includes ozone may be more toxic than exposure to ozone alone. Although lung volume and resistance changes observed after a single exposure diminish with repeated exposures, biochemical and cellular changes appear to persist, which can lead to subsequent lung structural changes.
Particulate Matter	PM_{10} (Particulate Matter less than 10 microns): A major air pollutant consisting of tiny solid or liquid particles of soot, dust,	Sources of PM_{10} include road dust, windblown dust and construction. Also	A consistent correlation between elevated ambient fine particulate matter (PM_{10} and $PM_{2.5}$) levels and an

Criteria Pollutant	Description	Sources	Health Effects
	smoke, fumes, and aerosols. Particulate matter pollution is a major cause of reduce visibility (haze) which is caused by the scattering of light and consequently the significant reduction air clarity. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be deposited, resulting in adverse health effects. Additionally, it should be noted that PM_{10} is considered a criteria air pollutant. $PM_{2.5}$ (Particulate Matter less than 2.5 microns): A similar air pollutant to PM_{10} consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include sulfates formed from SO_2 release from power plants and industrial facilities and nitrates that are formed from NO_X release from power plants, automobiles and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. $PM_{2.5}$ is a criteria air pollutant.	formed from other pollutants (acid rain, NO_X, SO_X, organics). Incomplete combustion of any fuel. $PM_{2.5}$ comes from fuel combustion in motor vehicles, equipment and industrial sources, residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NO_X, SO_X, organics).	increase in mortality rates, respiratory infections, number and severity of asthma attacks and the number of hospital admissions has been observed in different parts of the United States and various areas around the world. In recent years, some studies have reported an association between long-term exposure to air pollution dominated by fine particles and increased mortality, reduction in lifespan, and an increased mortality from lung cancer. Daily fluctuations in $PM_{2.5}$ concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to particulate matter. The elderly, people with pre-existing respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM_{10} and $PM_{2.5}$.
Volatile Organic Compounds (VOC)	VOCs are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic	Organic chemicals are widely used as ingredients in household products. Paints, varnishes and wax all contain organic solvents, as do many cleaning, disinfecting,	Breathing VOCs can irritate the eyes, nose and throat, can cause difficulty breathing and nausea, and can damage the central nervous system as well as other organs. Some VOCs can cause cancer. Not all VOCs have all these health

Criteria Pollutant	Description	Sources	Health Effects
	compounds) have different levels of reactivity; that is, they do not react at the same speed or do not form ozone to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Exceptions to the VOC designation include carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms VOC and ROG (see below) interchangeably.	cosmetic, degreasing and hobby products. Fuels are made up of organic chemicals. All of these products can release organic compounds while you are using them, and, to some degree, when they are stored.	effects, though many have several.
ROG	Similar to VOC, ROGs are also precursors in forming ozone and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and nitrogen oxides react in the presence of sunlight. ROGs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms ROG and VOC (see previous) interchangeably.	Sources similar to VOCs.	Health effects similar to VOCs.
Lead (Pb)	Lead is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of lead in the air was emissions from vehicles burning leaded gasoline. The major sources of lead emissions are ore and metals processing, particularly lead smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include	Metal smelters, resource recovery, leaded gasoline, deterioration of lead paint.	Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased Pb levels are

Criteria Pollutant	Description	Sources	Health Effects
	waste incinerators, utilities, and lead-acid battery manufacturers. It should be noted that the Project does not include operational activities such as metal processing or lead acid battery manufacturing. As such, the Project is not anticipated to generate a quantifiable amount of lead emissions.		associated with increased blood pressure. Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the respiratory system. Pb can be stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers.
Odor	Odor means the perception experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerves.	Odors can come from many sources including animals, human activities, industry, natures, and vehicles.	Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.

2.5 EXISTING AIR QUALITY

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (6).

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards. At the time of this AQIA, the most recent state and federal standards were updated by CARB on May ,4 2016 and are presented in Table 2-2. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2, PM_{10}, and $PM_{2.5}$ are not to be exceeded. All others are not to be equaled or exceeded. It should be noted that the three-year period is presented for informational purposes and is not the basis for how the State assigns attainment status. Attainment status for a pollutant means that the Air District meets the standards set by the EPA or the California EPA. Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. In order to improve air quality in nonattainment areas, a State Implementation Plan (SIP) is drafted. The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area (7).

TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (1 OF 2)

Ambient Air Quality Standards						
Pollutant	**Averaging Time**	**California Standards** [1]		**National Standards** [2]		
		Concentration [3]	**Method** [4]	**Primary** [3,5]	**Secondary** [3,6]	**Method** [7]
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m^3)		0.070 ppm (137 µg/m^3)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	12.0 µg/m^3	15 µg/m^3	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m^3)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m^3)		9 ppm (10 mg/m^3)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m^3)	Gas Phase Chemiluminescence	100 ppb (188 µg/m^3)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)		0.053 ppm (100 µg/m^3)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m^3)	Ultraviolet Fluorescence	75 ppb (196 µg/m^3)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m^3)	
	24 Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m^3	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m^3 (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m^3		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	**No National Standards**		
Sulfates	24 Hour	25 µg/m^3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m^3)	Gas Chromatography			

See footnotes on next page …

For more information please call ARB-PIO at (916) 322-2990 **California Air Resources Board (5/4/16)**

TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (2 OF 2)

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.

3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.

5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.

8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

11. On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

    Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu g/m^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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2.6 REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: O_3, PM_{10}, $PM_{2.5}$, CO, NO_2, SO_2 and Pb which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 37 permanent monitoring stations and 5 single-pollutant source Pb air monitoring sites throughout the air district (8). On February 20, 2019, CARB posted the 2018 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SCAB (9). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB

Criteria Pollutant	State Designation	Federal Designation
O_3 – 1-hour standard	Nonattainment	--
O_3 – 8-hour standard	Nonattainment	Nonattainment
PM_{10}	Nonattainment	Attainment
$PM_{2.5}$	Nonattainment	Nonattainment
CO	Attainment	Unclassifiable/Attainment
NO_2	Attainment	Unclassifiable/Attainment
SO_2	Unclassifiable/Attainment	Unclassifiable/Attainment
Pb[1]	Attainment	Unclassifiable/Attainment

Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the SCAB
"-" = The national 1-hour O_3 standard was revoked effective June 15, 2005

2.7 LOCAL AIR QUALITY

The Project site is located within the Source Receptor Area (SRA) 5 (10). Relative to the Project site, the nearest long-term air quality monitoring site for O_3, CO, NO_2, and $PM_{2.5}$ is the SCAQMD South San Gabriel Valley monitoring station (within the neighboring SRA 11), located approximately 4.61 miles north of the Project site. The SCAQMD Central Los Angeles monitoring station (located in SRA 1) is the nearest monitoring station located approximately 11.84 miles northwest of the Project site that monitors PM_{10}. It should be noted that both the South San Gabriel Valley and Central Los Angeles monitoring stations were utilized as there are no monitoring stations located within SRA 5.

The most recent three (3) years of data available is shown on Table 2-4 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the Project site. Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ for 2016 through 2018 was obtained from the SCAQMD Air Quality Data Tables (11). Additionally,

[1] The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

data for SO_2 has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO_2 concentrations.

TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2016-2018

POLLUTANT	STANDARD	YEAR		
		2016	2017	2018
O_3				
Maximum Federal 1-Hour Concentration (ppm)		0.111	0.118	0.115
Maximum Federal 8-Hour Concentration (ppm)		0.081	0.086	0.082
Number of Days Exceeding Federal 1-Hour Standard	>0.07 ppm	0	0	0
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	9	7	3
Number of Days Exceeding Federal 8-Hour Standard	> 0.070 ppm	6	9	5
Number of Days Exceeding State 8-Hour Standard	> 0.070 ppm	6	9	5
CO				
Maximum Federal 1-Hour Concentration	> 35 ppm	2.8	2.5	2
Maximum Federal 8-Hour Concentration	> 20 ppm	1.7	2.2	1.8
NO_2				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.06	0.08	0.08
Annual Federal Standard Design Value		0.02	0.02	0.02
PM_{10}				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 150 $\mu g/m^3$	67	96	81
Annual Federal Arithmetic Mean ($\mu g/m^3$)		32.4	34.4	34.1
Number of Days Exceeding Federal 24-Hour Standard	> 150 $\mu g/m^3$	0	0	0
Number of Days Exceeding State 24-Hour Standard	> 50 $\mu g/m^3$	18	41	31
$PM_{2.5}$				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 35 $\mu g/m^3$	46.59	49.5	35.4
Annual Federal Arithmetic Mean ($\mu g/m^3$)	> 12 $\mu g/m^3$	11.75	12.23	12.31
Number of Days Exceeding Federal 24-Hour Standard	> 35 $\mu g/m^3$	2	1	0

Source: Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ was obtained from SCAQMD Air Quality Data Tables.

2.8 REGULATORY BACKGROUND

2.8.1 FEDERAL REGULATIONS

The EPA is responsible for setting and enforcing the NAAQS for O_3, CO, NO_x, SO_2, PM_{10}, and Pb (12). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of the CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (13). The CAA also mandates that states submit and implement SIPs for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards will be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (14) (15). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O_3, NO_2, SO_2, PM_{10}, CO, $PM_{2.5}$, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O_3 and to adopt a NAAQS for $PM_{2.5}$. Table 2-3 (previously presented) provides the NAAQS within the SCAB.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and NO_X. NO_X is a collective term that includes all forms of nitrogen oxides (NO, NO_2, NO_3) which are emitted as byproducts of the combustion process.

2.7.2 CALIFORNIA REGULATIONS

California Air Resource Board. The CARB, which became part of the CalEPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. The CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for sulfates, visibility, hydrogen sulfide, and vinyl chloride. However, at this time, hydrogen sulfide and vinyl chloride are not measured at any monitoring stations in the SCAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (16) (12).

Local air quality management districts, such as the SCAQMD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS.

Serious non-attainment areas are required to prepare air quality management plans that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;

- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g. motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;
- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a five percent or more annual reduction in emissions or 15 percent or more in a period of three years for ROGs, NO_X, CO and PM_{10}. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than five percent per year under certain circumstances.

Title 24 Energy Efficiency Standards and California Green Building Standards. California Code of Regulations Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas (GHG) emissions. The 2019 version of Title 24 was adopted by the California Energy Commission (CEC) and will become effective on January 1, 2020. As such, the analysis herein assumes compliance with the 2019 Title 24 Standards.

The CEC indicates that the 2019 Title 24 standards will require solar photovoltaic systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, update indoor and outdoor lighting for nonresidential buildings. The CEC anticipates that single-family homes built with the 2019 standards will use approximately 7 percent less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar photovoltaic systems, homes built under the 2019 standards will about 53 percent less energy than homes built under the 2016 standards. Nonresidential buildings will use approximately 30 percent less energy due to lighting upgrades (17).

California Code of Regulations, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on January 1, 2011, and is administered by the California Building Standards Commission. CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2019 California Green Building Code Standards that will be effective January 1, 2020. Local jurisdictions are permitted to adopt more stringent requirements, as state law provides methods for local enhancements. CALGreen recognizes that many jurisdictions have developed existing construction and demolition ordinances and defers to them as the ruling guidance provided, they establish a minimum 65 percent diversion requirement. The code also provides exemptions for areas not served by construction and demolition recycling infrastructure. The State Building Code provides the minimum standard that buildings must meet in order to be certified for occupancy, which is generally enforced by the local building official. 2019 CALGreen standards are applicable to the Project and require (18):

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phase project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
    - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
    - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
    - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
    - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of note more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).
- Outdoor portable water use in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building

or within an addition that is project to consume more than 1,000 gal/day (5.303.1.1 and 5.303.1.2).

- Outdoor water use in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall b included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

2.8.3 AIR QUALITY MANAGEMENT PLANNING

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of Air Quality Management Plans (AQMPs) to meet the state and federal ambient air quality standards (19). AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy. A detailed discussion on the AQMP and Project consistency with the AQMP is provided in Section 3.9.

2.9 REGIONAL AIR QUALITY IMPROVEMENT

The Project is within the jurisdiction of the SCAQMD. In 1976, California adopted the Lewis Air Quality Management Act which created SCAQMD from a voluntary association of air pollution control districts in Los Angeles, Orange, Riverside, and San Bernardino counties. The geographic area of which SCAQMD consists is known as the SCAB. SCAQMD develops comprehensive plans and regulatory programs for the region to attain federal standards by dates specified in federal law. The agency is also responsible for meeting state standards by the earliest date achievable, using reasonably available control measures.

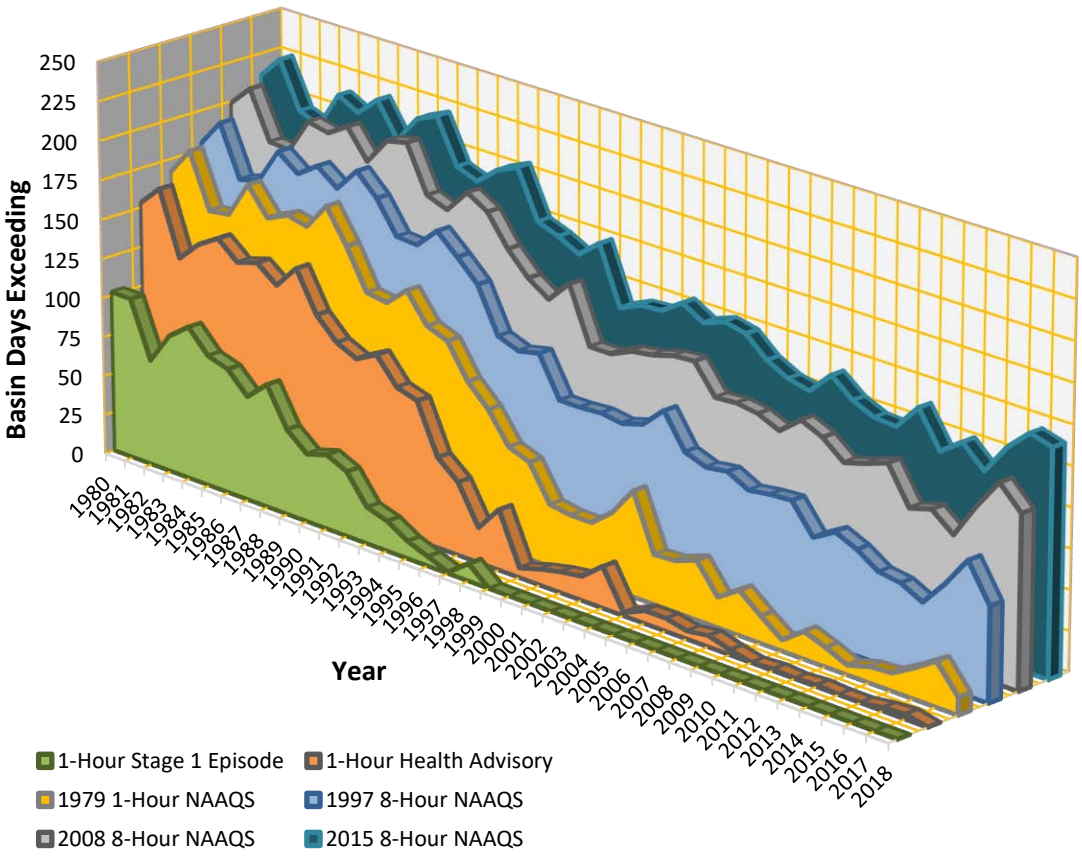
SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the SCAB. Industrial emission sources have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire SCAB. SCAQMD created AQMPs which represent a regional blueprint for achieving healthful air on behalf of the 16 million residents of the SCAB. The 2012 AQMP states, "the remarkable historical improvement in air quality since the 1970's is the direct result of Southern California's comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs," (20).

Emissions of O_3, NO_X, VOC, and CO have been decreasing in the SCAB since 1975 and are projected to continue to decrease through 2020 (21). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled in the SCAB continue to increase, NO_X and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting

vehicles. NO_X emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. O_3 contour maps show that the number of days exceeding the 8-hour NAAQS has decreased between 1997 and 2007. In the 2007 period, there was an overall decrease in exceedance days compared with the 1997 period. O_3 levels in the SCAB have decreased substantially over the last 30 years as shown in Table 2-5 (22). Today, the maximum measured concentrations are approximately one-third of concentrations within the late 70's.

TABLE 2-5: SCAB O_3 TREND



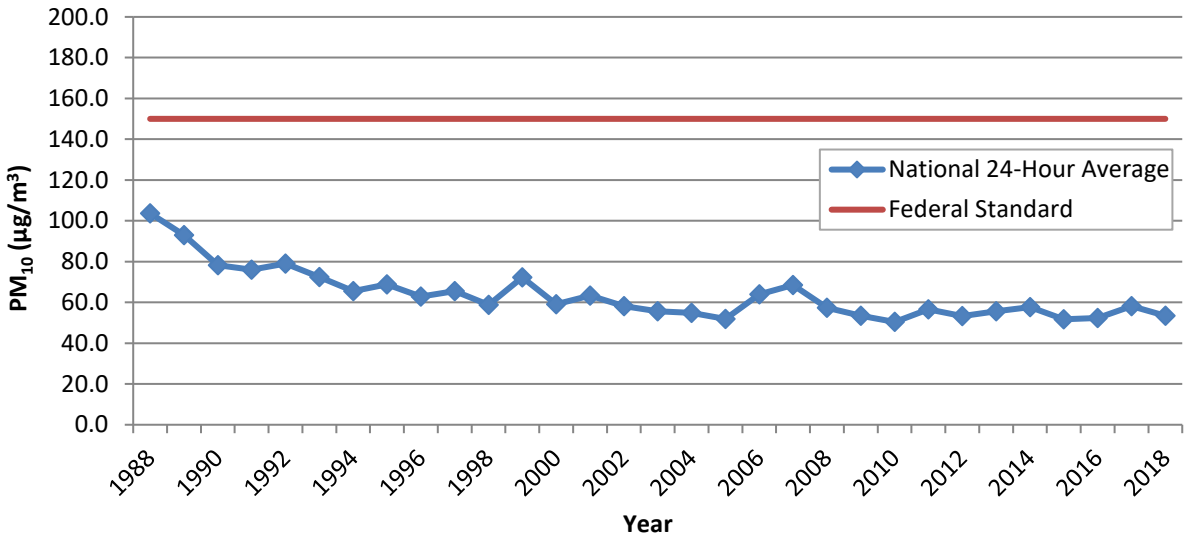
Source: SCAQMD

The overall trends of PM_{10} and $PM_{2.5}$ levels in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM_{10} have remained somewhat constant in the SCAB and direct emissions of $PM_{2.5}$ have decreased slightly since 1975. Area wide sources (fugitive dust from roads, dust from construction and demolition, and other sources) contribute the greatest amount of direct particulate matter emissions.

As with other pollutants, the most recent PM_{10} statistics show an overall improvement as illustrated in Tables 2-6 and 2-7. During the period for which data are available, the 24-hour national annual average concentration for PM_{10} decreased by approximately 48 percent, from 103.7 µg/m³ in 1988 to 53.5 µg/m³ in 2018 (23). Although the values are below the federal

standard, it should be noted that there are days within the year where the concentrations will exceed the threshold. The 24-hour state annual average for emissions for PM_{10}, have decreased by approximately 53 percent since 1988 (23). Although data in the late 1990's show some variability, this is probably due to the advances in meteorological science rather than a change in emissions. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM_{10} standards has also shown an overall drop.

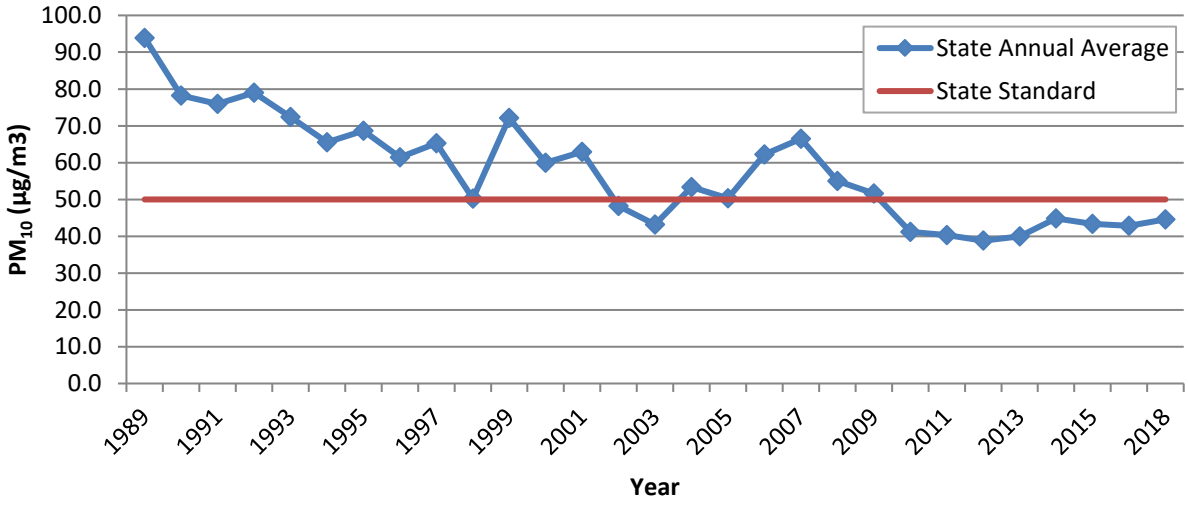
TABLE 2-6: SCAB AVERAGE 24-HOUR CONCENTRATION PM_{10} TREND (BASED ON FEDERAL STANDARD) [1]



Source: CARB

[1] Some year have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

TABLE 2-7: SCAB ANNUAL AVERAGE CONCENTRATION PM_{10} TREND (BASED ON STATE STANDARD)[1]

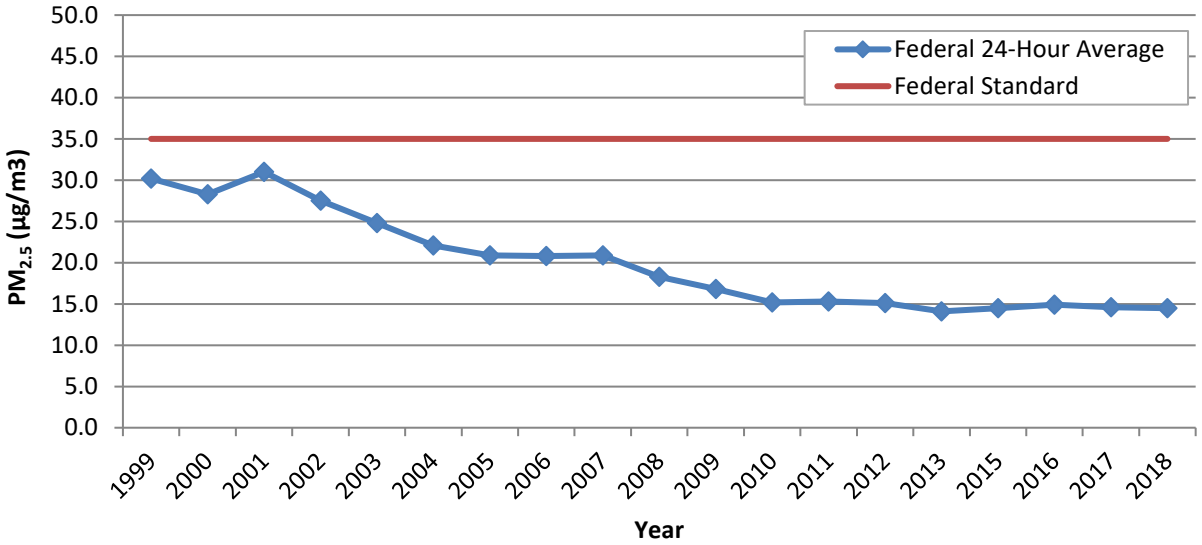


Source: CARB

[1] Some year have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

Tables 2-8 and 2-9 shows the most recent 24-hour average $PM_{2.5}$ concentrations in the SCAB from 1999 through 2018. Overall, the national and state annual average concentrations have decreased by almost 52 percent and 33 percent respectively (23). It should be noted that the SCAB is currently designated as nonattainment for the state and federal $PM_{2.5}$ standards.

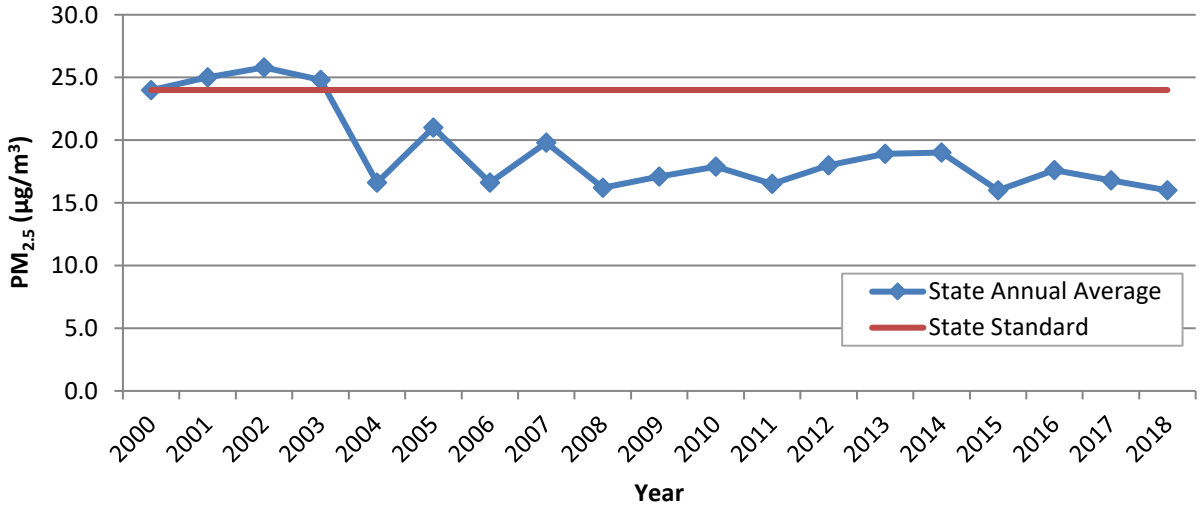
TABLE 2-8: SCAB 24-HOUR AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON FEDERAL STANDARD)[1]



Source: CARB

[1] Some year have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

TABLE 2-9: SCAB ANNUAL AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON STATE STANDARD)[1]



Source: CARB

[1] Some year have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

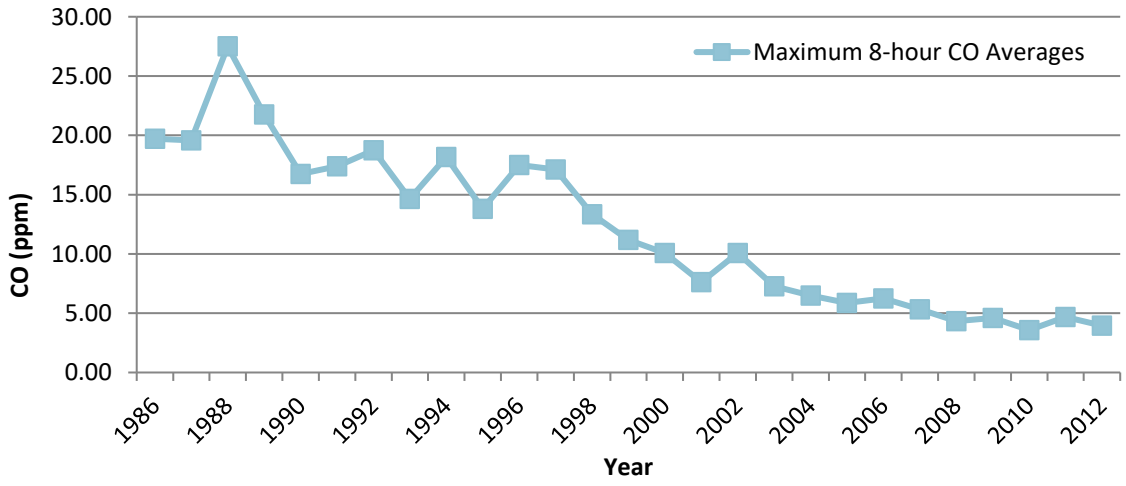
While the 2012 AQMP PM_{10} attainment demonstration and the 2015 associated supplemental SIP submission indicated that attainment of the 24-hour standard was predicted to occur by the end of 2015, it could not anticipate the effect of the ongoing drought on the measured $PM_{2.5}$.

The 2006 to 2010 base period used for the 2012 attainment demonstration had near-normal rainfall. While the trend of $PM_{2.5}$- equivalent emission reductions continued through 2015, the severe drought conditions contributed to the $PM_{2.5}$ increases observed after 2012. As a result of the disrupted progress toward attainment of the federal 24-hour $PM_{2.5}$ standard, SCAQMD submitted a request and the EPA approved, in January 2016, a "bump up" to the nonattainment classification from "moderate" to "serious," with a new attainment deadline as soon as practicable, but not beyond December 31, 2019.

In March 2017, the AQMD released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as, explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (24). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) and updated emission inventory methodologies for various source categories (19).

The most recent CO concentrations in the SCAB are shown in Table 2-10 (23). CO concentrations in the SCAB have decreased markedly — a total decrease of more about 80 percent in the peak 8-hour concentration since 1986. It should be noted 2012 is the most recent year where 8-hour CO averages and related statistics are available in the SCAB. The number of exceedance days has also declined. The entire SCAB is now designated as attainment for both the state and national CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

TABLE 2-10: SCAB 24-HOUR AVERAGE CONCENTRATION CO TREND[1]



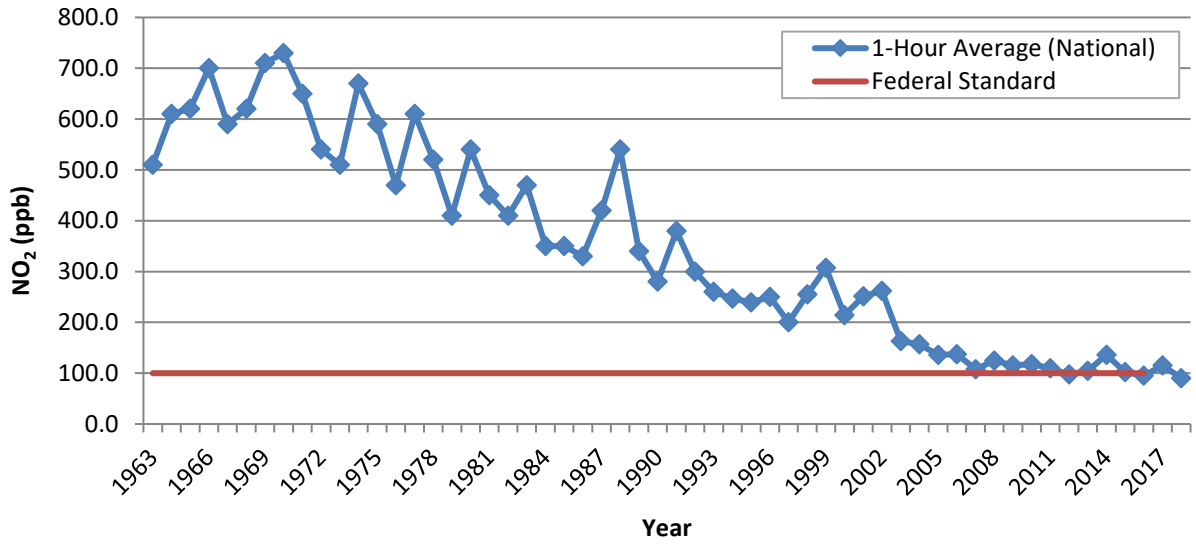
Source: CARB

[1] The most recent year where 8-hour concentration data is available is 2012.

Part of the control process of the SCAQMD's duty to greatly improve the air quality in the SCAB is the uniform CEQA review procedures required by SCAQMD's CEQA Handbook (25). The single threshold of significance used to assess Project direct and cumulative impacts has in fact "worked" as evidenced by the track record of the air quality in the SCAB dramatically improving over the course of the past decades. As stated by the SCAQMD, the District's thresholds of significance are based on factual and scientific data and are therefore appropriate thresholds of significance to use for this Project.

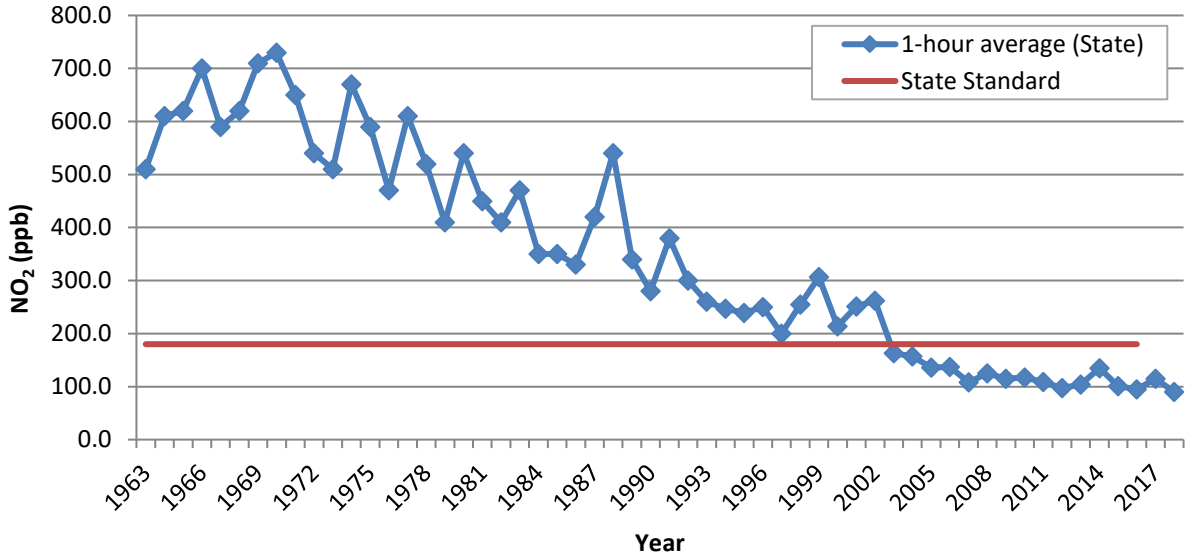
The most recent NO_2 data for the SCAB is shown in Tables 2-11 and 2-12 (23). Over the last 50 years, NO_2 values have decreased significantly; the peak 1-hour national and state averages for 2018 is approximately 82 percent lower than what it was during 1963. The SCAB attained the State 1-hour NO_2 standard in 1994, bringing the entire state into attainment. A new state annual average standard of 0.030 parts per million was adopted by the ARB in February 2007 (26). The new standard is just barely exceeded in the SCAQMD. NO_2 is formed from NO_X emissions, which also contribute to O_3. As a result, the majority of the future emission control measures will be implemented as part of the overall ozone control strategy. Many of these control measures will target mobile sources, which account for more than three-quarters of California's NO_X emissions. These measures are expected to bring the SCAQMD into attainment of the state annual average standard.

TABLE 2-11: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON FEDERAL STANDARD)



Source: CARB

TABLE 2-12: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON STATE STANDARD)



Source: CARB

The American Lung Association website includes data collected from state air quality monitors that are used to compile an annual State of the Air report. The latest State of the Air Report compiled for the SCAB was in 2018 (27). As noted in this report, air quality in the SCAB has significantly improved in terms of both pollution levels and high pollution days over the past three decades. The area's average number of high O_3 days dropped from 230 days in the initial 2000 State of the Air report (1996–1998) to 146 days in the 2018 report. The region has also seen dramatic reduction in particle pollution since the initial 2000 State of the Air report (27).

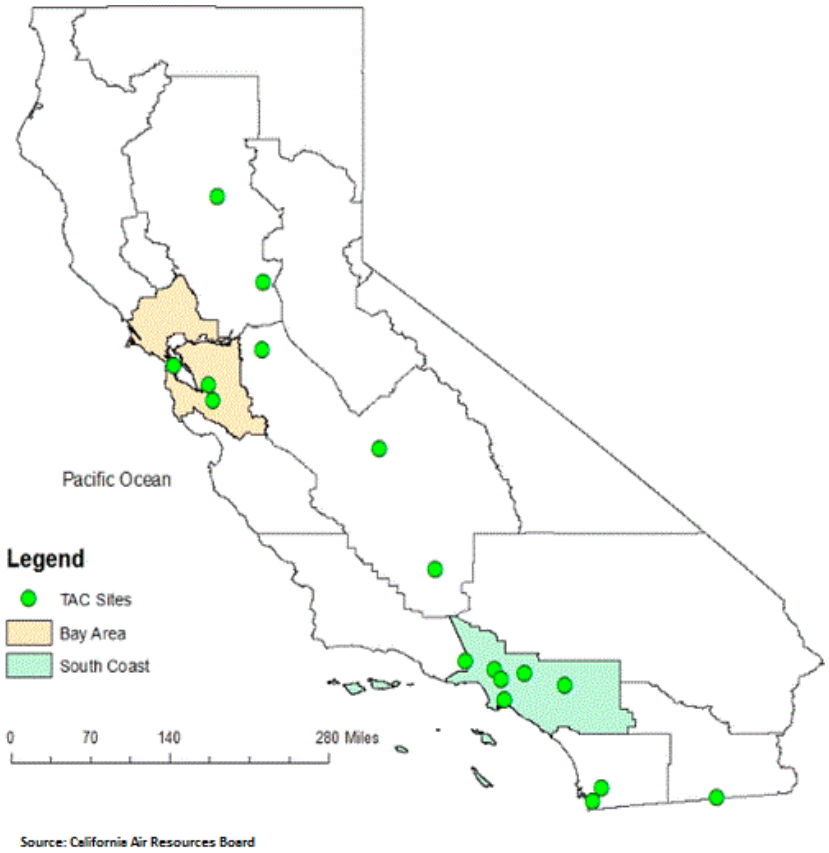
TOXIC AIR CONTAMINANTS (TACS) TRENDS

In 1984, as a result of public concern for exposure to airborne carcinogens, the CARB adopted regulations to reduce the amount of air toxic contaminant emissions resulting from mobile and area sources, such as cars, trucks, stationary products, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article (28) which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (between 1990 and 2012). The seven TACs studied include those that are derived from mobile sources: diesel particulate matter (DPM), benzene, and 1,3-butadiene; those that are derived from stationary sources: perchloroethylene and hexavalent chromium; and those derived from photochemical reactions of emitted VOCs: formaldehyde and acetaldehyde[2]. TACs data was gathered at monitoring sites from both the Bay Area and SCAB, as shown on Exhibit 2-A; Several of the sites in the SCAB include Reseda, Compton, Rubidoux, Burbank, and Fontana. The decline in ambient concentration and

[2] It should be noted that ambient DPM concentrations are not measured directly. Rather, a surrogate method using the coefficient of haze (COH) and elemental carbon (EC) is used to estimate DPM concentrations.

emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

EXHIBIT 2-A: CALIFORNIA TOXIC AIR CONTAMINANT SITES

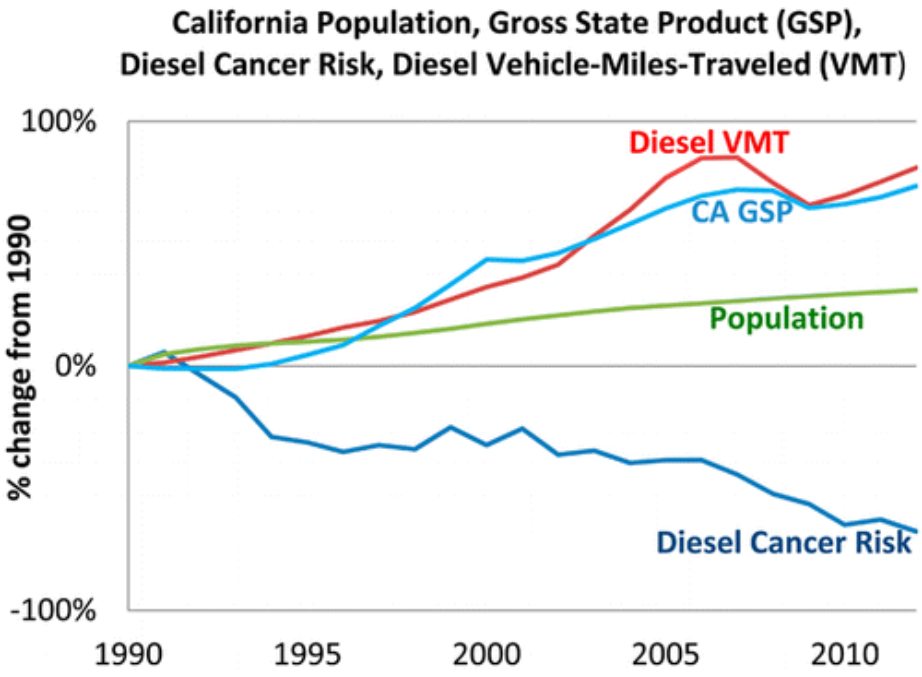


Mobile Source TACs

CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. In California, light-duty vehicles sold after 1996 are equipped with California's second-generation On-Board Diagnostic (OBD-II) system. The OBD II system monitors virtually every component that can affect the emission performance of the vehicle to ensure that the vehicle remains as clean as possible over its entire life and assists repair technicians in diagnosing and fixing problems with the computerized engine controls. If a problem is detected, the OBD II system illuminates a warning lamp on the vehicle instrument panel to alert the driver. This warning lamp typically contains the phrase Check Engine or Service Engine Soon. The system will also store important information about the detected malfunction so that a repair technician can accurately find and fix the problem. ARB has recently developed similar OBD requirements for heavy-duty vehicles over 14,000 lbs. CARB's phase II Reformulated Gasoline (RFG-2) regulation, adopted in 1996, also led to a reduction of mobile source emissions. Through such regulations, benzene levels declined 88% from 1990-2012. 1,3-Butadiene concentrations also declined 85% from 1990-2012 as a result of the use of reformulated gasoline and motor vehicle regulations (28).

In 2000, CARB's Diesel Risk Reduction Plan (DRRP) recommended the replacement and retrofit of diesel-fueled engines and the use of ultra-low-sulfur (<15ppm) diesel fuel. As a result of these measures, DPM concentrations have declined 68% since 2000, even though the state's population increased 31% and the amount of diesel vehicles miles traveled increased 81%, as shown on Exhibit 2-B. With the implementation of these diesel-related control regulations, ARB expects a DPM decline of 71% for 2000-2020.

EXHIBIT 2-B: DIESEL PARTICULATE MATTER AND DIESEL VEHICLE MILES TREND



Source: California Air Resources Board

DIESEL REGULATIONS

The CARB and the Ports of Los Angeles and Long Beach (POLA and POLB) have adopted several iterations of regulations for diesel trucks that are aimed at reducing diesel particulate matter (DPM). More specifically, the CARB Drayage Truck Regulation (29), the CARB statewide On-road Truck and Bus Regulation (30), and the Ports of Los Angeles and Long Beach "Clean Truck Program" (CTP) require accelerated implementation of "clean trucks" into the statewide truck fleet (31). In other words, older more polluting trucks will be replaced with newer, cleaner trucks as a function of these regulatory requirements.

Moreover, the average statewide DPM emissions for Heavy Duty Trucks (HDT), in terms of grams of DPM generated per mile traveled, will dramatically be reduced due to the aforementioned regulatory requirements.

Diesel emissions identified in this analysis would therefore overstate future DPM emissions since not all the regulatory requirements are reflected in the modeling.

CANCER RISK TRENDS

Based on information available from CARB, overall cancer risk throughout the SCAB has had a declining trend since 1990. In 1998, following an exhaustive 10-year scientific assessment process, CARB identified particulate matter from diesel-fueled engines as a toxic air contaminant. The SCAQMD initiated a comprehensive urban toxic air pollution study, called MATES-II (for Multiple Air Toxics Exposure Study). Diesel particulate matter (DPM) accounts for more than 70 percent of the cancer risk.

In 2008 the SCAQMD prepared an update to the MATES-II study, referred to as MATES-III. MATES-III estimates the average excess cancer risk level from exposure to TACs is an approximately 17% decrease in comparison to the MATES-II study.

In 2015, the SCAQMD published an in-depth analysis of the toxic air contaminants and the resulting health risks for all of Southern California. The *Multiple Air Toxics Exposure Study in the SCAB, MATES IV,"* which shows that cancer risk has decreased less than 50% since MATES III (2005) (32).

MATES-IV study represents the baseline health risk for a cumulative analysis. MATES-IV calculated cancer risks based on monitoring data collected at ten fixed sites within the SCAB. None of the fixed monitoring sites are within the local area of the Project site. However, MATES-IV has extrapolated the excess cancer risk levels throughout the SCAB by modeling the specific grids. MATES-IV modeling predicted an excess cancer risk of 1,066.32 in one million for the Project area. DPM is included in this cancer risk along with all other TAC sources. DPM accounts for 68% of the total risk shown in MATES-IV. Cumulative Project generated TACs are limited to DPM.

In January 2018, as part of the overall effort to reduce air toxics exposure in the SCAB, SCAQMD began conducting the MATES V Program. MATES V field measurements will be conducted over a one-year period at ten fixed sites (the same sites selected for MATES III and IV) to assess trends in air toxics levels. MATES V will also include measurements of ultrafine particles (UFP) and black carbon (BC) concentrations, which can be compared to the UFP levels measured in MATES IV (33). The final report for the MATES V study is currently expected to be available in Fall 2019, however no definitive date has been provided.

2.10 EXISTING PROJECT SITE AIR QUALITY CONDITIONS

As previously stated, the Project site is currently developed with 149,605 sf business park and 8,064 sf general office building uses. The estimated operation-source emissions from the existing development are summarized on Table 2-5. Detailed operation model outputs are presented in Appendix 3.4.

TABLE 2-13: EMISSIONS FROM EXISTING DEVELOPMENT

Existing Development Operational Activities	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer Scenario						
Total Maximum Daily Emissions	**8.91**	**16.13**	**55.76**	**0.16**	**14.12**	**3.94**
Winter Scenario						
Total Maximum Daily Emissions	**8.94**	**16.72**	**52.34**	**0.15**	**14.11**	**3.91**

lbs/day – Pounds Per Day
Source: CalEEMod operational-source emissions for the existing development are presented in Appendix 3.4.

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3 PROJECT AIR QUALITY IMPACT

3.1 INTRODUCTION

The Project has been evaluated to determine if it will violate an air quality standard or contribute to an existing or projected air quality violation. Additionally, the Project has been evaluated to determine if it will result in a cumulatively considerable net increase of a criteria pollutant for which the SCAB is non-attainment under an applicable federal or state ambient air quality standard. The significance of these potential impacts is described in the following section.

3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the Initial Study Checklist in Appendix G of the State CEQA Guidelines (14 California Code of Regulations §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would (1):

- Conflict with or obstruct implementation of the applicable air quality plan.
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard.
- Expose sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. affecting a substantial number of people.

The SCAQMD has also developed regional significance thresholds for other regulated pollutants, as summarized at Table 3-1 (34). The SCAQMD's CEQA Air Quality Significance Thresholds (March 2015) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

TABLE 3-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS

Pollutant	Construction	Operations
Regional Thresholds		
NO_X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
$PM_{2.5}$	55 lbs/day	55 lbs/day
SO_X	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day

Source: Regional Thresholds presented in this table are based on the SCAQMD Air Quality Significance Thresholds, March 2015

3.3 CALIFORNIA EMISSIONS ESTIMATOR MODEL™ EMPLOYED TO ESTIMATE AQ EMISSIONS

Land uses such as the Project affect air quality through construction-source and operational-source emissions.

On October 17, 2017, the SCAQMD in conjunction with the CAPCOA and other California air districts, released the latest version of the California Emissions Estimator Model™ (CalEEMod™) v2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (35). Accordingly, the latest version of CalEEMod™ has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for both construction and operational activity are provided in Appendices 3.1 through 3.4.

3.3.1 LAND USES MODELED IN CALEEMOD

The Project is located on 8.34 acres. As previously stated, the Project proposes to construct 163,518 sf of general light industrial use within 3 buildings.

CalEEMod does not provide an extensive selection of land use subtype categories, land uses that most closely fit the Project will be utilized. For purposes of analysis, the following land uses were modeled (36):

- 163.518 thousand square feet (TSF)/3.75 acres of General Light Industry
- 39.093 TSF/0.90 acres Other Non-Asphalt Surfaces[3]
- 136.533 TSF/3.13 acres Other Asphalt Surfaces[4]
- 271 Space Parking Lot[5] on 0.55 acres

3.3.2 EMISSION FACTORS MODEL

Vehicle emissions were estimated using information generated within the 2017 version of the Emission Factor model (EMFAC) developed by the CARB. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (37). This AQIA utilizes summer, winter, and annual EMFAC2017 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season.

[3] The User's Guide defines Other Non-Asphalt Surfaces as non-asphalt areas. As indicated on the site plan, the landscaped area for Building 1 is 22,420 sf and 16,673 sf for Buildings 2 and 3. For purposes of analysis, this category is used to model the 39,093 sf/0.90 acre of Landscaped areas.

[4] For purposes of analysis, the remaining 136,533 sf/3.13 acres will be modeled as Other Asphalt Surfaces. These surfaces are defined as an asphalt area not used as a parking lot.

[5] As indicated on the site plan, the parking landscaped area for Building 1 is 13,224 sf and 10,913 sf for Buildings 2 and 3. For purposes of analysis, this category is used to model the 24,137 sf/0.53 acre of parking landscape area for the 271 parking spaces.

3.4 CONSTRUCTION EMISSIONS

Construction activities associated with the Project will result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Construction related emissions are expected from the following construction activities:

- Demolition
- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

Dust is typically a major concern during demolition and grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called "fugitive emissions". Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). CalEEMod was utilized to calculate fugitive dust emissions resulting from this phase of activity.

Demolition

The Project site is currently developed with 149,605 square feet (sf) business park and 8,064 sf general office building uses. As such, and for purposes of analysis, the Project would demolish 157,669 sf of building.

Grading Activities

Based on information provided by the Project Applicant, the Project is expected require 9,500 cubic yards of import. For purposes of analysis the CalEEMod default trip length for hauling activities of 20 miles is has been used.

Construction Worker Vehicle Trips

Construction emissions for construction worker vehicles traveling to and from the Project site, as well as vendor trips (construction materials delivered to the Project site) were estimated based on information from CalEEMod defaults.

3.4.1 CONSTRUCTION DURATION

Construction is expected to commence in June 2020 and will last through August 2021. The construction schedule utilized in the analysis, shown in Table 3-2, represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission

regulations becoming more stringent.[6] The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines*. The duration of construction activity was based on the 2021 opening year and CalEEMod defaults.

TABLE 3-2: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Demolition	6/1/2020	6/26/2020	20
Site Preparation	6/27/2020	7/10/2020	10
Grading	7/11/2020	8/7/2020	20
Building Construction	8/8/2020	6/25/2021	230
Paving	6/26/2021	7/23/2021	20
Architectural Coating	6/26/2021	8/20/2021	40

Source: Construction activity based the 2021 opening year and CalEEMod defaults.

3.4.2 CONSTRUCTION EQUIPMENT

Site specific construction fleet may vary due to specific project needs at the time of construction. The associated construction equipment was generally based on CalEEMod 2016.3.2 defaults. A detailed summary of construction equipment assumptions by phase is provided at Table 3-3.

TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2)

Activity	Equipment	Number	Hours Per Day
Demolition	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
Site Preparation	Rubber Tired Dozers	3	8
	Tractors/Loaders/Backhoes	4	8
Grading	Excavators	1	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Tractors/Loaders/Backhoes	3	8

[6] As shown in the California Emissions Estimator Model (CalEEMod) User's Guide Version 2016.3.2, Section 4.3 "OFFROAD Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 2)

Activity	Equipment	Number	Hours Per Day
Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

Source: Construction equipment based on CalEEMod defaults.

3.4.3 CONSTRUCTION EMISSIONS SUMMARY

Impacts without Mitigation

The estimated maximum daily construction emissions without mitigation are summarized on Table 3-4. CalEEMod calculates maximum daily emissions for summer and winter periods. As a conservative measure, construction emissions presented in Table 3-4 are from the winter period as these emissions are higher than the summer emissions. Detailed construction model outputs are presented in Appendix 3.1. Under the assumed scenarios, emissions resulting from the Project construction will not exceed criteria pollutant thresholds established by the SCAQMD for emissions of any criteria pollutant.

TABLE 3-4: OVERALL CONSTRUCTION EMISSIONS SUMMARY (WITHOUT MITIGATION)

Year	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
2020	4.17	43.13	25.27	0.07	10.07	6.02
2021	21.88	24.91	24.37	0.06	3.14	1.55
Maximum Daily Emissions	**21.88**	**43.13**	**25.27**	**0.07**	**10.07**	**6.02**
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod regional construction-source emissions are presented in Appendix 3.1.

3.5 OPERATIONAL EMISSIONS

Operational activities associated with the proposed Project will result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Operational emissions would be expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions

3.5.1 AREA SOURCE EMISSIONS

Architectural Coatings

Over a period of time, the buildings that are part of this Project will be subject to emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings as part of Project maintenance. The emissions associated with architectural coatings were calculated using the CalEEMod.

Consumer Products

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form ozone and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within CalEEMod.

Landscape Maintenance Equipment

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shedders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. The emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

3.5.2 ENERGY SOURCE EMISSIONS

Combustion Emissions Associated with Natural Gas and Electricity

Electricity and natural gas are used by almost every project. Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas. However, because electrical generating facilities for the Project area are located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity is generally excluded from the evaluation of significance and only natural gas use is considered. The emissions associated with natural gas use were calculated using CalEEMod.

Title 24 Energy Efficiency Standards

California's Energy Efficiency Standards for Residential and Nonresidential Buildings was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity. The 2019 version of Title 24 was adopted by the CEC and will become effective on January 1, 2020. As such, the analysis herein assumes compliance with the 2019 Title 24 Standards.

3.5.3 MOBILE SOURCE EMISSIONS

Vehicles

Project mobile source air quality impacts are dependent on both overall daily vehicle trip generation and the effect of the Project on peak hour traffic volumes and traffic operations in the vicinity of the Project. The Project related operational air quality impacts derive primarily from vehicle trips generated by the Project. Trip characteristics available from the *Trip Generation Analysis for Pioneer Boulevard Development, Santa Fe Springs* (EPD Solutions, Inc.) were utilized in this analysis (38). As per information provided by EPD Solutions, Inc., the following Institute of Transportation Engineers (ITE) land use codes have been utilized:

- General Light Industrial (ITE 110): A light industrial facility is a free-standing facility devoted to a single use. The facility has an emphasis on activities other than manufacturing and typically has minimal office space.

3.5.3.1 Trip Length

SCAQMD Recommendation

In the last five years, the SCAQMD has provided numerous comments on the trip length for warehouse/distribution and industrial land use projects. The SCAQMD asserts that the model-default trip length in CalEEMod™ and the URBan EMISsions (URBEMIS) 2007 model (version 9.2.4) would underestimate emissions. It should be noted that for warehouse, distribution center, and industrial land use projects, most of the heavy-duty trucks would be hauling consumer goods, often from the POLA and POLB and/or to destinations outside of California. The SCAQMD states that for this reason, the CalEEMod™ and the URBEMIS model default trip length (approximately 12.6 miles) would not be representative of activities at like facilities. The average trip length for heavy trucks were based on the SCAQMD documents for the implementation of the Facility-Based Mobile Source Measures (FBMSMs) adopted in the 2016 AQMP. SCAQMD's "Preliminary Warehouse Emission Calculations" cites 39.9-mile trip length for heavy-heavy trucks (39).

Approach for Analysis of the Project

Two separate model runs were utilized in order to more accurately model emissions resulting from vehicle operations. The first run analyzed passenger car emissions, which incorporated a default trip length of 16.6 miles for passenger cars, an assumption of 100% primary trips, and a

fleet mix of 60.11% Light-Duty-Auto vehicles (LDA), 4.73% Light-Duty Trucks (LDT1)[7], 21.98% Light-Duty Trucks (LDT2)[8], and 13.18% Medium-Duty Vehicles (MDV). The second run analyzed truck emissions, which incorporated an average truck trip length of 40 miles, an assumption of 100% primary trips, and a fleet mix of 37.36% of Light-Heavy-Duty Trucks (LHDT), 18.39% of Medium-Heavy-Duty Trucks (MHDT), and 44.25% of Heavy-Heavy-Duty Trucks (HHDT).

Fugitive Dust Related to Vehicular Travel

Vehicles traveling on paved roads would be a source of fugitive emissions due to the generation of road dust inclusive of break and tire wear particulates. The emissions estimates for travel on paved roads were calculated using CalEEMod (40).

3.5.4 ON-SITE EQUIPMENT EMISSIONS

It is common for industrial buildings to require cargo handling equipment to move empty containers and empty chassis to and from the various pieces of cargo handling equipment that receive and distribute containers. The most common type of cargo handling equipment is the yard truck which is designed for moving cargo containers. Yard trucks are also known as yard goats, utility tractors (UTRs), hustlers, yard hostlers, and yard tractors. The cargo handling equipment is assumed to have a horsepower (hp) range of approximately 175 hp to 200 hp. Based on the latest available information from SCAQMD (41); for example, high-cube warehouse projects typically have 3.6 yard trucks per million square feet of building space. For this particular Project, based on the maximum square footage of manufacturing use permitted by the proposed Project, on-site modeled operational equipment includes one (1) 200 hp, compressed natural gas-powered yard tractors operating at 4 hours a day for 365 days of the year**.**

3.5.5 OPERATIONAL EMISSIONS SUMMARY

As previously stated, CalEEMod utilizes summer and winter EMFAC2017 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season. As such, operational activities for summer and winter scenarios are presented in Table 3-5.

Impacts without Mitigation

The estimated operational-source emissions are summarized on Tables 3-5. It should be noted that the existing development emissions (previously presented in Section 2.10 of this AQIA) were subtracted from the Project operational emissions to determine the new emissions from the proposed Project. Detailed operation model outputs for the Project are presented in Appendices 3.2 through 3.3. As shown on Table 3-5, the Project's daily regional emissions from on-going operations will not exceed any of the thresholds of significance.

[7] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

[8] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

TABLE 3-5: SUMMARY OF OPERATIONAL EMISSIONS

Operational Activities – Summer Scenario	Emissions (lbs/day)					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Area Source	3.74	5.70e-04	0.06	0.00	2.20e-04	2.20e-04
Energy Source	0.07	0.62	0.52	3.69e-03	0.05	0.05
Mobile Source (Passenger Cars)	1.73	1.59	27.02	0.08	8.09	2.17
Mobile Source (Trucks)	1.58	40.62	11.57	0.16	6.69	2.27
On-Site Equipment	0.14	1.55	0.77	3.17e-03	0.05	0.05
Total Maximum Daily Emissions	**7.26**	**44.37**	**39.94**	**0.24**	**14.88**	**4.54**
Existing Emissions	***8.91***	***16.13***	***55.76***	***0.16***	***14.12***	***3.94***
Net Emissions (Project – Existing)	**-1.65**	**28.24**	**-15.82**	**0.08**	**0.77**	**0.60**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**
Operational Activities – Winter Scenario	**Emissions (lbs/day)**					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Area Source	3.74	5.70e-04	0.06	0.00	2.20e-04	2.20e-04
Energy Source	0.07	0.62	0.52	3.69e-03	0.05	0.05
Mobile Source (Passenger Cars)	1.73	1.74	24.40	0.07	8.09	2.17
Mobile Source (Trucks)	1.54	41.87	10.23	0.16	6.68	2.27
On-Site Equipment	0.14	1.55	0.77	3.17e-03	0.05	0.05
Total Maximum Daily Emissions	**7.22**	**45.76**	**35.98**	**0.24**	**14.87**	**4.54**
Existing Emissions	***8.94***	***16.72***	***52.34***	***0.15***	***14.11***	***3.91***
Net Emissions (Project – Existing)	**-1.73**	**29.04**	**-16.36**	**0.09**	**0.76**	**0.63**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod regional operational-source emissions are presented in Appendices 3.2 and 3.3.

3.6 LOCALIZED SIGNIFICANCE - CONSTRUCTION ACTIVITY

BACKGROUND ON LOCALIZED SIGNIFICANCE THRESHOLD (LST) DEVELOPMENT

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology) (42). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The significance of localized emissions impacts depends on whether ambient levels in the vicinity of any given project are above or below State standards. In the case of CO and NO_2, if ambient levels are below the standards, a project is considered to have a significant impact if project emissions result in an exceedance of one or more of these standards. If ambient levels already exceed a state or federal standard, then project emissions are considered significant if they increase ambient concentrations by a measurable amount. This would apply to PM_{10} and $PM_{2.5}$; both of which are non-attainment pollutants.

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4[9]. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology included in the *LST Methodology* (43).

APPLICABILITY OF LSTS FOR THE PROJECT

For this Project, the appropriate Source Receptor Area (SRA) for the LST analysis is the SCAQMD Southeast Los Angeles County monitoring station (SRA 5). LSTs apply to CO, NO_2, PM_{10}, and $PM_{2.5}$. The SCAQMD produced look-up tables for projects less than or equal to 5 acres in size.

In order to determine the appropriate methodology for determining localized impacts that could occur as a result of Project-related construction, the following process is undertaken:

- CalEEMod is utilized to determine the maximum daily on-site emissions that will occur during construction activity.
- The SCAQMD's Fact Sheet for Applying CalEEMod to Localized Significance Thresholds (44) is used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod.
- If the total acreage disturbed is less than or equal to five acres per day, then the SCAQMD's screening look-up tables are utilized to determine if a project has the potential to result in a significant impact. The look-up tables establish a maximum daily emissions threshold in pounds per day that can be compared to CalEEMod outputs.
- If the total acreage disturbed is greater than five acres per day, then LST impacts are appropriately evaluated through dispersion modeling.

[9] The purpose of SCAQMD's Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the SCAQMD defines Environmental Justice as "…equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution."

EMISSIONS CONSIDERED

SCAQMD's *LST Methodology* clearly states that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs (42)." Therefore, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered.

MAXIMUM DAILY DISTURBED-ACREAGE

The "acres disturbed" for analytical purposes are based on specific equipment type for each subcategory of construction activity and the estimated maximum area a given piece of equipment can pass over in an 8-hour workday (as shown on Table 3-6). The equipment-specific disturbance rates were obtained from the CalEEMod user's guide, *Appendix A: Calculation Details for CalEEMod* (October 2017). It should be noted that the disturbed area per day is representative of a piece of equipment making multiple passes over the same land area. In other words, one Rubber Tired Dozer can make multiple passes over the same land area totaling 0.5 acres in a given 8-hour day. Based on Table 3-6, the proposed Project could actively disturb approximately 1.0 acre per day during demolition activities, 1.5 acres per day during site preparation activities, and 1.0 acre per day during grading activities.

TABLE 3-6 : MAXIMUM DAILY DISTURBED-ACREAGE

Construction Phase	Equipment Type	Equipment Quantity	Acres graded per 8-hour day	Operating Hours per Day	Acres graded per day
Demolition	Rubber Tired Dozers	2	0.5	8	1.0
Total acres disturbed per day during Demolition					1.0
Site Preparation	Rubber Tired Dozers	3	0.5	8	1.5
Total acres disturbed per day during Site Preparation					1.5
Grading	Graders	1	0.5	8	0.5
	Rubber Tired Dozers	1	0.5	8	0.5
Total acres disturbed per day during Grading					1.0

Source: Maximum daily disturbed acreage based on equipment list presented in Appendix 3.1.

SENSITIVE RECEPTORS

As previously stated, LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. Receptor locations are off-site locations where individuals may be exposed to emissions from Project activities. This AQIA analyzes localized construction and operational emissions impacts at the nearest sensitive receptors.

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, individuals with pre-existing respiratory or cardiovascular illness, and athletes and others who

engage in frequent exercise. Structures that house these persons or places where they gather to exercise are defined as "sensitive receptors". These structures typically include residences, hotels, hospitals, etc. as they are also known to be locations where an individual can remain for 24 hours. Consistent with the *LST Methodology*, the nearest land use where an individual could remain for 24 hours to the Project site (in this case the nearest residential land use) has been used to determine construction and operational air quality impacts for emissions of PM_{10} and $PM_{2.5}$, since PM_{10} and $PM_{2.5}$ thresholds are based on a 24 hour averaging time.

Commercial and industrial facilities are not included in the definition of sensitive receptor because employees and patrons do not typically remain onsite for a full 24 hours but are typically onsite for eight hours or less. The *LST Methodology* explicitly states that "*LSTs based on shorter averaging periods, such as the NO_2 and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours* (42)." Consistent with the *LST Methodology*, the nearest industrial/commercial use to the Project site is used to determine construction and operational LST air impacts for emissions of NO_2 and CO.

Project-related Receptors

Sensitive receptors in the Project study area include existing residential homes, business park uses, limited manufacturing, and industrial uses. The SCAQMD recommends that the nearest sensitive receptor be considered when determining the Project's potential to cause an individual and cumulatively significant impact. As such, the nearest residential receptor to the Project site is located approximately 1,000 feet/305 meters northwest Project site on Arlee Avenue. The 305-meter distance will be used to evaluate construction and operational air quality impacts for emissions of PM_{10} and $PM_{2.5}$. For evaluation of localized NO_2 and CO impacts, the nearest non-residential receptor is an industrial building located 10 feet/3 meters south of the Project site on Telegraph Road. It should be noted that although the nearest non-sensitive receptor is 3-meters from the Project site, the *LST Methodology* explicitly states that "*It is possible that a project may have receptors closer than 25 meters. Projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters* (42)." As such a 25-meter receptor distance will be used for NO_2 and CO.

LOCALIZED THRESHOLDS FOR CONSTRUCTION ACTIVITY

Since the total acreage disturbed is less than five acres per day for demolition, site preparation, and the grading phases, the SCAQMD's screening look-up tables are utilized in determining impacts. It should be noted that since the look-up tables identifies thresholds at only 1 acre, 2 acres, and 5 acres, linear regression has been utilized, consistent with SCAQMD guidance, in order to interpolate the threshold values for the other disturbed acreage and distances not identified in the look-up tables.

TABLE 3-7: MAXIMUM DAILY LOCALIZED EMISSIONS THRESHOLDS

Pollutant	Construction	Operations
Localized Thresholds		
NO_X	80 lbs/day (Demolition)	172 lbs/day
	97 lbs/day (Site Preparation)	
	80 lbs/day (Grading)	
CO	571 lbs/day (Demolition)	1,480 lbs/day
	716 lbs/day (Site Preparation)	
	571 lbs/day (Grading)	
PM_{10}	103 lbs/day (Demolition)	32 lbs/day
	112 lbs/day (Site Preparation)	
	103 lbs/day (Grading)	
$PM_{2.5}$	42 lbs/day (Demolition)	14 lbs/day
	47 lbs/day (Site Preparation)	
	42 lbs/day (Grading)	

Source: Localized Thresholds presented in this table are based on the SCAQMD Final Localized Significance Threshold Methodology, July 2008

CONSTRUCTION-SOURCE EMISSIONS LST ANALYSIS

Impacts without Mitigation

Table 3-8 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. Outputs from the model runs for construction LSTs are provided in Appendix 3.1. As shown, Project construction-source emissions would not exceed the numerical thresholds of significance established by the SCAQMD for any criteria pollutant. Thus, a less than significant impact would occur for Project-related construction-source emissions and no mitigation is required.

TABLE 3-8: LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION (WITHOUT MITIGATION, 1 OF 2)

On-Site Demolition Emissions	Emissions (lbs/day)			
	NO_X	**CO**	**PM_{10}**	**$PM_{2.5}$**
Maximum Daily Emissions	**33.20**	**21.75**	**4.69**	**2.00**
SCAQMD Localized Threshold	80	571	103	42
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

TABLE 3-8: LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION (WITHOUT MITIGATION, 2 OF 2)

On-Site Site Preparation Emissions	Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**42.42**	**21.51**	**9.86**	**5.96**
SCAQMD Localized Threshold	97	716	112	47
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**
On-Site Grading Emissions	**Emissions (lbs/day)**			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**26.39**	**16.05**	**4.06**	**2.51**
SCAQMD Localized Threshold	80	571	103	42
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod localized construction-source emissions are presented in Appendix 3.1.

3.7 LOCALIZED SIGNIFICANCE – LONG-TERM OPERATIONAL ACTIVITY

The Project is located on an 8.34-acre parcel. As noted previously, the LST Methodology provides look-up tables for sites with an area with daily disturbance of 5 acres or less. For projects that exceed 5 acres, the 5-acre LST look-up tables can be used as a screening tool to determine which pollutants require additional detailed analysis. This approach is conservative as it assumes that all on-site emissions associated with the project would occur within a concentrated 5-acre area. This screening method would therefore over-predict potential localized impacts, because by assuming that on-site operational activities are occurring over a smaller area, the resulting concentrations of air pollutants are more highly concentrated once they reach the smaller site boundary than they would be for activities if they were spread out over a larger surface area. On a larger site, the same amount of air pollutants generated would disperse over a larger surface area and would result in a lower concentration once emissions reach the project-site boundary. As such, LSTs for a 5-acre site during operations are used as a screening tool to determine if further detailed analysis is required.

Table 3-9 shows the calculated emissions for the Project's operational activities compared with the applicable LSTs. The LST analysis includes on-site sources only; however, the CalEEMod™ model outputs do not separate on-site and off-site emissions from mobile sources. In an effort to establish a maximum potential impact scenario for analytic purposes, the emissions shown on Table 3-9 represent all on-site Project-related stationary (area) sources and five percent (5%) of the Project-related mobile sources. Considering that the trip length used in CalEEMod™ for the Project is approximately 16.6 miles for passenger cars and 40 miles for all trucks, 5% of this total would represent an on-site travel distance of approximately 0.83 miles/4,382.40 feet for passenger cars and 2 miles/10,560 feet for trucks.

It should be noted that the longest on-site distance from the entry to the exit is 0.25 mile for both trucks and passenger cars. As such, the 5% assumption is conservative and would tend to overstate the actual impact because it is not likely that a truck would drive 0.83 miles on the site

or that a passenger car would drive 2 miles on the site. Modeling based on these assumptions demonstrates that even within broad encompassing parameters, Project operational-source emissions would not exceed applicable LSTs.

OPERATIONAL-SOURCE EMISSIONS LST ANALYSIS

Impacts without Mitigation

As shown on Table 3-9 operational emissions will not exceed the LST thresholds for the nearest sensitive receptor. As shown, Project operational-source emissions would not exceed the numerical thresholds of significance established by the SCAQMD for any criteria pollutant. Thus, a less than significant impact would occur for Project-related operational-source emissions and no mitigation is required.

TABLE 3-9: LOCALIZED SIGNIFICANCE SUMMARY OF OPERATIONS

Operational Activity	Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**4.34**	**3.28**	**0.84**	**0.32**
SCAQMD Localized Threshold	172	1,480	32	14
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod localized operational-source emissions are presented in Appendices 3.2 and 3.3.

3.8 CO "HOT SPOT" ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or "hot spots." Further, detailed modeling of Project-specific CO "hot spots" is not needed to reach this conclusion.

An adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur. At the time of the 1993 Handbook, the SCAB was designated nonattainment under the CAAQS and NAAQS for CO (45).

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment, as previously noted in Table 2-3. Also, CO concentrations in the Project vicinity have steadily declined, as indicated by historical emissions data presented previously at Table 2-4. To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO "hot spot" analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time

periods. This "hot spot" analysis did not predict any violation of CO standards, as shown on Table 3-10.

TABLE 3-10: CO MODEL RESULTS

Intersection Location	CO Concentrations (ppm)		
	Morning 1-hour	Afternoon 1-hour	8-hour
Wilshire Blvd./Veteran Ave.	4.6	3.5	3.7
Sunset Blvd./Highland Ave.	4	4.5	3.5
La Cienega Blvd./Century Blvd.	3.7	3.1	5.2
Long Beach Blvd./Imperial Hwy.	3	3.1	8.4

Source: 2003 AQMP
Notes: ppm: parts per million. Federal 1-hour standard is 35 ppm and the deferral 8-hour standard is 9.0 ppm.

Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 9.3 ppm 8-hr CO concentration measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the "hot spot" analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 8.6 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (46). In contrast, the ambient 8-hr CO concentration within the Project study area is estimated at 1.4 ppm—1.6 ppm (please refer to previous Table 2-3). Therefore, even if the traffic volumes for the proposed Project were double or even triple of the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO "hot spot" at any study area intersections.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour—or 24,000 vehicles per hour where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (47).

Traffic volumes generating the CO concentrations for the "hot spot" analysis, shown on Table 3-11. The busiest intersection evaluated was that at Wilshire Blvd. and Veteran Ave., which has a daily traffic volume of approximately 100,000 vehicles per day. The 2003 AQMP estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm).[10] At buildout of the Project, the highest daily traffic volumes generated at the roadways within the

10 Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm).

vicinity of the Project are expected to generate less than the highest daily traffic volumes generated at the busiest intersection in the CO "hot spot" analysis. As such, the Project would not likely exceed the most stringent 1-hour CO standard.

The proposed Project considered herein would not produce the volume of traffic required to generate a CO "hot spot" either in the context of the 2003 Los Angeles hot spot study or based on representative BAAQMD CO threshold considerations. Therefore, CO "hot spots" are not an environmental impact of concern for the proposed Project. Localized air quality impacts related to mobile-source emissions would therefore be less than significant.

TABLE 3-11: TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Eastbound (AM/PM)	Westbound (AM/PM)	Southbound (AM/PM)	Northbound (AM/PM)	Total (AM/PM)
Wilshire Blvd./Veteran Ave.	4,954/2,069	1,830/3,317	721/1,400	560/933	8,062/7,719
Sunset Blvd./Highland Ave.	1,417/1,764	1,342/1,540	2,304/1,832	1,551/2,238	6,614/5,374
La Cienega Blvd./Century Blvd.	2,540/2,243	1,890/2,728	1,384/2,029	821/1,674	6,634/8,674
Long Beach Blvd./Imperial Hwy.	1,217/2,020	1,760/1,400	479/944	756/1,150	4,212/5,514

Source: 2003 AQMP
Notes: vph-vehicles per hour

3.9 AIR QUALITY MANAGEMENT PLANNING

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what use to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the SCAG, county transportation commissions, local governments, as well as state and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards.

Currently, these state and federal air quality standards are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the state and federal ambient air quality standards. AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In March 2017, the AQMD released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as, explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (48). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016 RTP/SCS, a planning document that supports the integration of land use and

transportation to help the region meet the federal Clean Air Act requirements (19). The Project's consistency with the AQMP will be determined using the 2016 AQMP as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the SCAQMD's CEQA Air Quality Handbook (1993) (49). These indicators are discussed below:

Consistency Criterion No. 1: The proposed Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

The violations that Consistency Criterion No. 1 refers to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded.

Construction Impacts – Consistency Criterion 1

Consistency Criterion No. 1 refers to violations of the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if LSTs or regional significance thresholds were exceeded. As evaluated, the Project's regional and localized construction-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

Operational Impacts – Consistency Criterion 1

As evaluated, the Project's regional and localized operational-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

On the basis of the preceding discussion, the Project would be consistent with the AQMP according to this criterion.

Consistency Criterion No. 2: The Project will not exceed the assumptions in the AQMP based on the years of Project build-out phase.

The 2016 AQMP demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in City of Santa Fe Springs General Plan is considered to be consistent with the AQMP.

Construction Impacts

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities.

Operational Impacts

The City of Santa Fe Springs designates the Project site as Business Park. The Business Park designation allows for offices of all types, particularly company headquarters and research and development activities, are to be encouraged. Industrial uses in this area should be restricted to limited manufacturing, research and light assembly operations (50). As previously stated, the proposed Project consists of the development of 163,518 sf of general light industrial use which is generally consistent with the site's land use designation and intensity. Furthermore, the Project does not exceed any of the applicable air quality thresholds.

On the basis of the preceding discussion, the Project is determined to be consistent with the second criterion.

AQMP Consistency Conclusion

The Project would not result in or cause NAAQS or CAAQS violations. The proposed Project is consistent with the land use and growth intensities reflected in the adopted General Plan. Furthermore, the Project would not exceed any applicable regional or local thresholds. As such, the Project is therefore considered to be consistent with the AQMP.

3.10 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Sensitive receptors can include uses such as long-term health care facilities, rehabilitation centers, and retirement homes. Residences, schools, playgrounds, childcare centers, and athletic facilities can also be considered as sensitive receptors.

The proposed Project would not result in a CO "hotspot" as a result of Project related traffic during ongoing operations, nor would the Project result in a significant adverse health impact as discussed in Section 3.8. Thus, a less than significant impact to sensitive receptors during operational activity is expected.

3.11 ODORS

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not contain land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the City's solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required (51).

3.12 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the Project area is designated as an non-attainment area for ozone, PM_{10}, and $PM_{2.5}$.

The AQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (52). In this report the AQMD clearly states (Page D-3):

> *…the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (TAC) emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*
>
> *Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.*

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD's recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which the Basin is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related

construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would be considered cumulatively considerable.

Construction Impacts

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project construction-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, Project construction-source emissions would be considered less than significant on a project-specific and cumulative basis.

Operational Impacts

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project operational-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, Project operational-source emissions would be considered less than significant on a project-specific and cumulative basis.

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5 CERTIFICATION

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Pioneer Boulevard Development. The information contained in this air quality impact assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

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EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May, 2010

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PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June, 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August, 2007
AB2588 Regulatory Standards – Trinity Consultants • November, 2006
Air Dispersion Modeling – Lakes Environmental • June, 2006

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APPENDIX 2.1:

STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS

APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

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APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

This attachment fulfills the requirement of Health and Safety Code section 40718 for CARB to publish maps that identify areas where one or more violations of any State ambient air quality standard (State standard) or national ambient air quality standard (national standard) have been measured. The national standards are those promulgated under section 109 of the federal Clean Air Act (42 U.S.C. 7409).

This attachment is divided into three parts. The first part comprises a table showing the levels, averaging times, and measurement methods for each of the State and national standards. This is followed by a section containing maps and tables showing the area designations for each pollutant for which there is a State standard in the California Code of Regulations, title 17, section 70200. The last section contains maps and tables showing the most current area designations for the national standards.

Ambient Air Quality Standards

(Updated 5/4/16)

Pollutant	Averaging Time	California Standards [1]		National Standards [2]		
		Concentration [3]	Method [4]	Primary [3,5]	Secondary [3,6]	Method [7]
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 µg/m³	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m³)		9 ppm (10 mg/m³)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)		0.053 ppm (100 µg/m³)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m³)	
	24 Hour	0.04 ppm (105 µg/m³)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m³ (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m³		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	**No National Standards**		
Sulfates	24 Hour	25 µg/m³	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m³)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m³)	Gas Chromatography			

See footnotes on next page ...

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.

3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

4. Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.

5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

7. Reference method as described by the U.S. EPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the U.S. EPA.

8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

11. On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

    Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

12. The CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu g/m^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

14. In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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Area Designations for the State Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a State standard set forth in the California Code of Regulations, title 17, section 60200. Each area is identified as attainment, nonattainment, nonattainment-transitional, or unclassified for each pollutant, as shown below:

Attainment	A
Nonattainment	N
Nonattainment-Transitional	NA-T
Unclassified	U

In general, CARB designates areas by air basin for pollutants with a regional impact and by county for pollutants with a more local impact. However, when there are areas within an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, CARB may designate a smaller area. Generally, when boundaries of the designated area differ from the air basin or county boundaries, the description of the specific area is referenced at the bottom of the summary table.

FIGURE 1



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 1

California Ambient Air Quality Standards
Area Designations for Ozone [1]

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTHEAST PLATEAU AIR BASIN				X
Alpine County			X		SACRAMENTO VALLEY AIR BASIN				
Inyo County	X				Colusa and Glenn Counties				X
Mono County	X				Sutter/Yuba Counties				
LAKE COUNTY AIR BASIN				X	Sutter Buttes	X			
LAKE TAHOE AIR BASIN				X	Remainder of Sutter County				X
MOJAVE DESERT AIR BASIN	X				Yuba County				X
MOUNTAIN COUNTIES AIR BASIN					Yolo/Solano Counties		X		
Amador County	X				Remainder of Air Basin	X			
Calaveras County	X				SALTON SEA AIR BASIN	X			
El Dorado County (portion)	X				SAN DIEGO AIR BASIN	X			
Mariposa County	X				SAN FRANCISCO BAY AREA AIR BASIN	X			
Nevada County	X				SAN JOAQUIN VALLEY AIR BASIN	X			
Placer County (portion)	X				SOUTH CENTRAL COAST AIR BASIN				
Plumas County			X		San Luis Obispo County	X			
Sierra County			X		Santa Barbara County		X		
Tuolumne County	X				Ventura County	X			
NORTH CENTRAL COAST AIR BASIN		X			SOUTH COAST AIR BASIN	X			
NORTH COAST AIR BASIN				X					

(1) AB 3048 (Olberg) and AB 2525 (Miller) signed into law in 1996, made changes to Health and Safety Code, section 40925.5. One of the changes allows nonattainment districts to become nonattainment-transitional for ozone by operation of law.

FIGURE 2



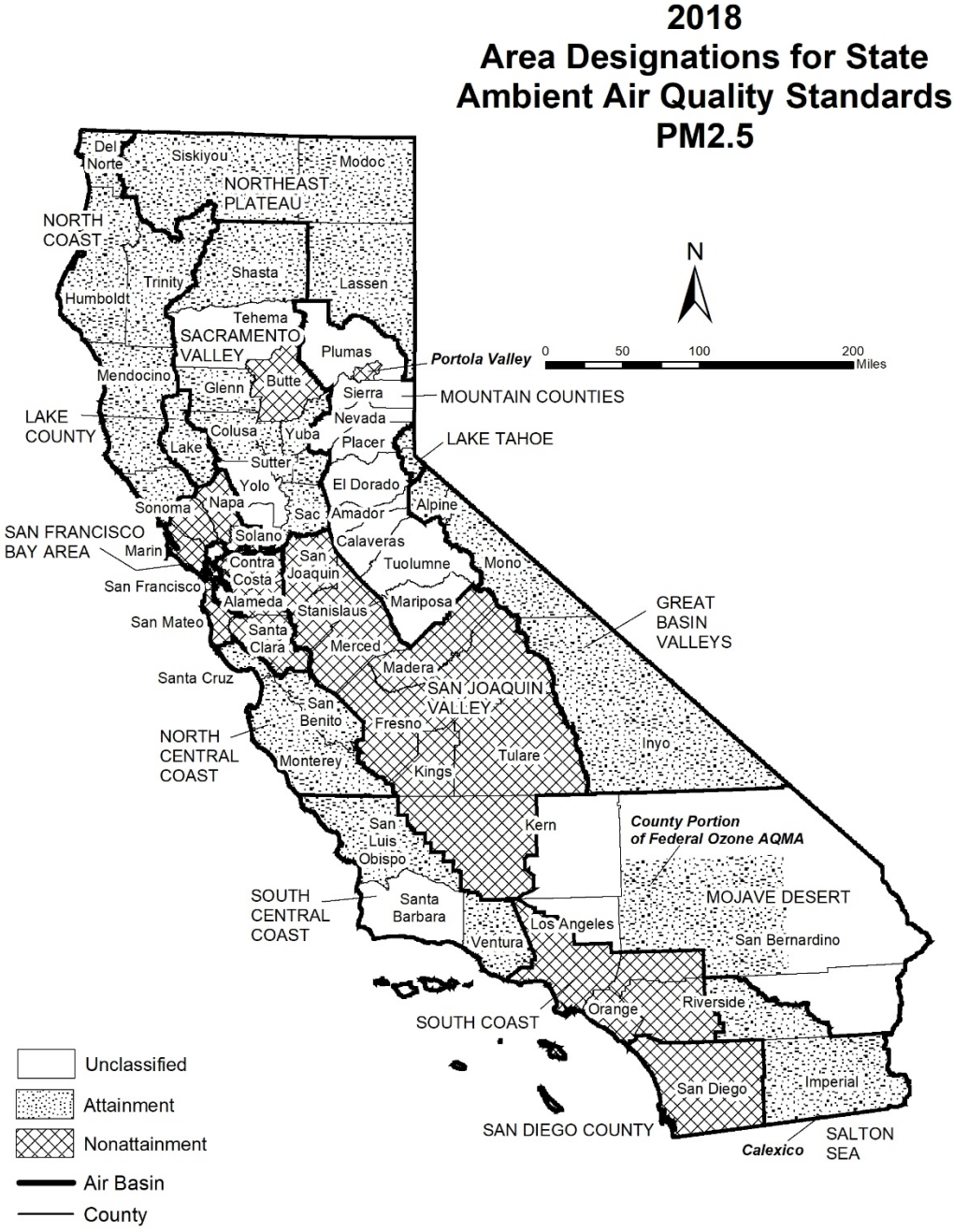
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 2

California Ambient Air Quality Standards
Area Designation for Suspended Particulate Matter (PM10)

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN	X			NORTH CENTRAL COAST AIR BASIN	X		
LAKE COUNTY AIR BASIN			X	NORTH COAST AIR BASIN			
LAKE TAHOE AIR BASIN	X			Del Norte, Sonoma (portion) and Trinity Counties			X
MOJAVE DESERT AIR BASIN	X			Remainder of Air Basin	X		
MOUNTAIN COUNTIES AIR BASIN				NORTHEAST PLATEAU AIR BASIN			
Amador County		X		Siskiyou County			X
Calaveras County	X			Remainder of Air Basin		X	
El Dorado County (portion)	X			SACRAMENTO VALLEY AIR BASIN			
Mariposa County				Shasta County			X
- Yosemite National Park	X			Remainder of Air Basin	X		
- Remainder of County		X		SALTON SEA AIR BASIN	X		
Nevada County	X			SAN DIEGO AIR BASIN	X		
Placer County (portion)	X			SAN FRANCISCO BAY AREA AIR BASIN	X		
Plumas County	X			SAN JOAQUIN VALLEY AIR BASIN	X		
Sierra County	X			SOUTH CENTRAL COAST AIR BASIN	X		
Tuolumne County		X		SOUTH COAST AIR BASIN	X		

FIGURE 3



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 3

California Ambient Air Quality Standards
Area Designations for Fine Particulate Matter (PM2.5)

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			
LAKE COUNTY AIR BASIN			X	Imperial County			
LAKE TAHOE AIR BASIN			X	- City of Calexico (3)	X		
MOJAVE DESERT AIR BASIN				Remainder of Air Basin			X
San Bernardino County				SAN DIEGO AIR BASIN	X		
- County portion of federal Southeast Desert Modified AQMA for Ozone (1)			X	SAN FRANCISCO BAY AREA AIR BASIN	X		
				SAN JOAQUIN VALLEY AIR BASIN	X		
Remainder of Air Basin		X		SOUTH CENTRAL COAST AIR BASIN			
MOUNTAIN COUNTIES AIR BASIN				San Luis Obispo County			X
Plumas County				Santa Barbara County		X	
- Portola Valley (2)	X			Ventura County			X
Remainder of Air Basin		X		SOUTH COAST AIR BASIN	X		
NORTH CENTRAL COAST AIR BASIN			X				
NORTH COAST AIR BASIN			X				
NORTHEAST PLATEAU AIR BASIN			X				
SACRAMENTO VALLEY AIR BASIN							
Butte County	X						
Colusa County			X				
Glenn County			X				
Placer County (portion)			X				
Sacramento County			X				
Shasta County			X				
Sutter and Yuba Counties			X				
Remainder of Air Basin		X					

(1) California Code of Regulations, title 17, section 60200(b)

(2) California Code of Regulations, title 17, section 60200(c)

(3) California Code of Regulations, title 17, section 60200(a)

FIGURE 4

2018
Area Designations for State Ambient Air Quality Standards
CARBON MONOXIDE



Source Date:
October 2018
Air Quality Planning and Science Division

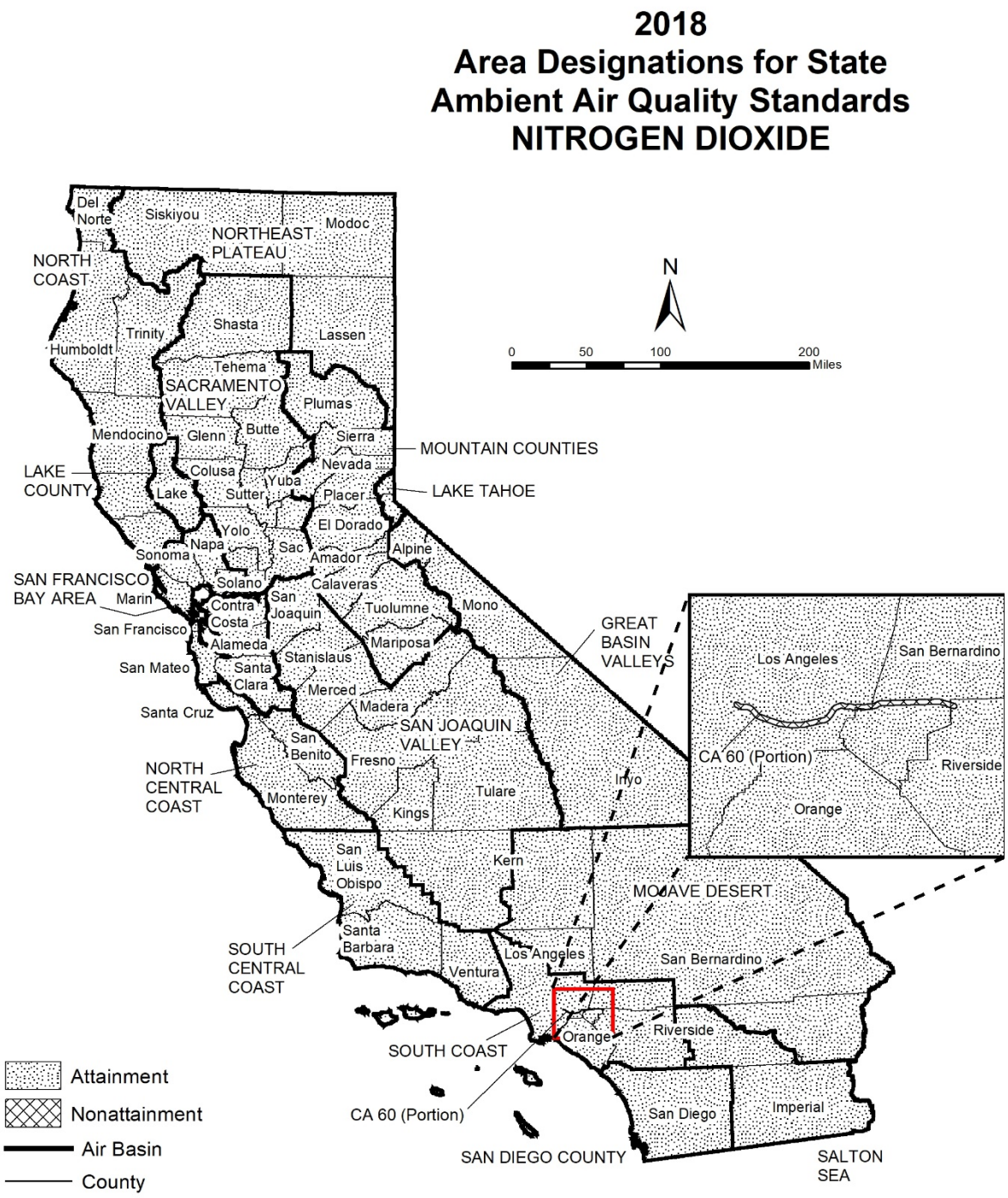
TABLE 4

California Ambient Air Quality Standards
Area Designation for Carbon Monoxide*

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					SACRAMENTO VALLEY AIR BASIN				
Alpine County			X		Butte County				X
Inyo County				X	Colusa County			X	
Mono County				X	Glenn County			X	
LAKE COUNTY AIR BASIN				X	Placer County (portion)				X
LAKE TAHOE AIR BASIN				X	Sacramento County				X
MOJAVE DESERT AIR BASIN					Shasta County			X	
Kern County (portion)			X		Solano County (portion)				X
Los Angeles County (portion)				X	Sutter County				X
Riverside County (portion)			X		Tehama County			X	
San Bernardino County (portion)				X	Yolo County				X
MOUNTAIN COUNTIES AIR BASIN					Yuba County			X	
Amador County			X		SALTON SEA AIR BASIN				X
Calaveras County			X		SAN DIEGO AIR BASIN				X
El Dorado County (portion)			X		SAN FRANCISCO BAY AREA AIR BASIN				X
Mariposa County			X		SAN JOAQUIN VALLEY AIR BASIN				
Nevada County			X		Fresno County				X
Placer County (portion)			X		Kern County (portion)				X
Plumas County				X	Kings County			X	
Sierra County			X		Madera County			X	
Tuolumne County				X	Merced County			X	
NORTH CENTRAL COAST AIR BASIN					San Joaquin County				X
Monterey County				X	Stanislaus County				X
San Benito County			X		Tulare County				X
Santa Cruz County			X		SOUTH CENTRAL COAST AIR BASIN				X
NORTH COAST AIR BASIN					SOUTH COAST AIR BASIN				X
Del Norte County			X						
Humboldt County				X					
Mendocino County				X					
Sonoma County (portion)			X						
Trinity County			X						
NORTHEAST PLATEAU AIR BASIN			X						

* The area designated for carbon monoxide is a county or portion of a county

FIGURE 5



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 5

California Ambient Air Quality Standards
Area Designation for Nitrogen Dioxide

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			
NORTHEAST PLATEAU AIR BASIN			X	CA 60 Near-road Portion of San Bernardino, Riverside, and Los Angeles Counties	X		
				Remainder of Air Basin			X

FIGURE 6



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 6

California Ambient Air Quality Standards
Area Designation for Sulfur Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SALTON SEA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN DIEGO AIR BASIN		X
MOJAVE DESERT AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X			

* The area designated for sulfur dioxide is a county or portion of a county

FIGURE 7



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 7

California Ambient Air Quality Standards
Area Designation for Sulfates

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X				

FIGURE 8

2018
Area Designations for State Ambient Air Quality Standards
LEAD



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 8

California Ambient Air Quality Standards
Area Designations for Lead (particulate)*

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SAN DIEGO AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTH COAST AIR BASIN			X				
NORTHEAST PLATEAU AIR BASIN			X				
SACRAMENTO VALLEY AIR BASIN			X				

* The area designated for lead is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

FIGURE 9

2018
Area Designations for State Ambient Air Quality Standards
HYDROGEN SULFIDE



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 9

California Ambient Air Quality Standards
Area Designation for Hydrogen Sulfide*

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTH CENTRAL COAST AIR BASIN			X	
Alpine County			X		NORTH COAST AIR BASIN				
Inyo County				X	Del Norte County			X	
Mono County				X	Humboldt County				X
LAKE COUNTY AIR BASIN				X	Mendocino County			X	
LAKE TAHOE AIR BASIN			X		Sonoma County (portion)				
MOJAVE DESERT AIR BASIN					- Geyser Geothermal Area (2)				X
Kern County (portion)			X		- Remainder of County			X	
Los Angeles County (portion)			X		Trinity County			X	
Riverside County (portion)			X		NORTHEAST PLATEAU AIR BASIN			X	
San Bernardino County (portion)					SACRAMENTO VALLEY AIR BASIN			X	
- Searles Valley Planning Area (1)	X				SALTON SEA AIR BASIN			X	
- Remainder of County			X		SAN DIEGO AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN					SAN FRANCISCO BAY AREA AIR BASIN			X	
Amador County					SAN JOAQUIN VALLEY AIR BASIN			X	
- City of Sutter Creek	X				SOUTH CENTRAL COAST AIR BASIN				
- Remainder of County			X		San Luis Obispo County				X
Calaveras County			X		Santa Barbara County				X
El Dorado County (portion)			X		Ventura County			X	
Mariposa County			X		SOUTH COAST AIR BASIN			X	
Nevada County			X						
Placer County (portion)			X						
Plumas County			X						
Sierra County			X						
Tuolumne County			X						

* The area designated for hydrogen sulfide is a county or portion of a county

(1) 52 Federal Register 29384 (August 7, 1987)

(2) California Code of Regulations, title 17, section 60200(d)

FIGURE 10

2018
Area Designations for State Ambient Air Quality Standards
VISIBILITY REDUCING PARTICLES



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 10

California Ambient Air Quality Standards
Area Designation for Visibility Reducing Particles

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN			X		SACRAMENTO VALLEY AIR BASIN			X	
LAKE COUNTY AIR BASIN				X	SALTON SEA AIR BASIN			X	
LAKE TAHOE AIR BASIN			X		SAN DIEGO AIR BASIN			X	
MOJAVE DESERT AIR BASIN			X		SAN FRANCISCO BAY AREA AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN			X		SAN JOAQUIN VALLEY AIR BASIN			X	
NORTH CENTRAL COAST AIR BASIN			X		SOUTH CENTRAL COAST AIR BASIN			X	
NORTH COAST AIR BASIN			X		SOUTH COAST AIR BASIN			X	
NORTHEAST PLATEAU AIR BASIN			X						

Area Designations for the National Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a national ambient air quality standard. Additional information about the federal area designations is available on the U.S. EPA website:

https://www.epa.gov/green-book

Over the last several years, U.S. EPA has been reviewing the levels of the various national standards. The agency has already promulgated new standard levels for some pollutants and is considering revising the levels for others. Information about the status of these reviews is available on the U.S. EPA website:

https://www.epa.gov/criteria-air-pollutants

Designation Categories

Suspended Particulate Matter (PM_{10}). The U.S. EPA uses three categories to designate areas with respect to PM_{10}:

- Attainment
- Nonattainment
- Unclassifiable

Ozone, Fine Suspended Particulate Matter ($PM_{2.5}$), Carbon Monoxide (CO), and Nitrogen Dioxide (NO_2). The U.S. EPA uses two categories to designate areas with respect to these standards:

- Nonattainment
- Unclassifiable/Attainment

The national 1-hour ozone standard was revoked effective June 15, 2005, and the area designations map reflects the 2015 national 8-hour ozone standard of 0.070 ppm. Original designations were finalized on August 3, 2018.

On December 14, 2012, the U.S. EPA established a new national annual primary $PM_{2.5}$ standard of 12.0 $\mu g/m^3$. New area designations reflecting this revised standard became final in December 2014. The current designation map reflects the most recently revised (2012) annual average standard of 12.0 $\mu g/m^3$ as well as the 24-hour standard of 35 $\mu g/m^3$, revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO_2 standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO_2 standard became effective on February 29, 2012. All areas of California meet this standard.

Sulfur Dioxide (SO_2). The U.S. EPA uses three categories to designate areas with respect to the 24-hour and annual average sulfur dioxide standards. These designation categories are:

- Nonattainment,
- Unclassifiable, and
- Attainment/Unclassifiable.

On June 2, 2010, the U.S. EPA established a new primary 1-hour SO_2 standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual

average standards. Area designations for the 1-hour SO_2 standard were finalized on December 21, 2017 and are reflected in the area designations map.

Lead (particulate). The U.S. EPA promulgated a new rolling 3-month average lead standard in October 2008 of 0.15 µg/m^3. Designations were made for this standard in November 2010.

Designation Areas

From time to time, the boundaries of the California air basins have been changed to facilitate the planning process. CARB generally initiates these changes, and they are not always reflected in the U.S. EPA's area designations. For purposes of consistency, the maps in this attachment reflect area designation boundaries and nomenclature as promulgated by the U.S. EPA. In some cases, these may not be the same as those adopted by CARB. For example, the national area designations reflect the former Southeast Desert Air Basin. In accordance with Health and Safety Code section 39606.1, CARB redefined this area in 1996 to be the Mojave Desert Air Basin and Salton Sea Air Basin. The definitions and boundaries for all areas designated for the national standards can be found in Title 40, Code of Federal Regulations (CFR), Chapter I, Subchapter C, Part 81.305. They are available on the web at:

https://ecfr.io/Title-40/se40.20.81_1305

FIGURE 11

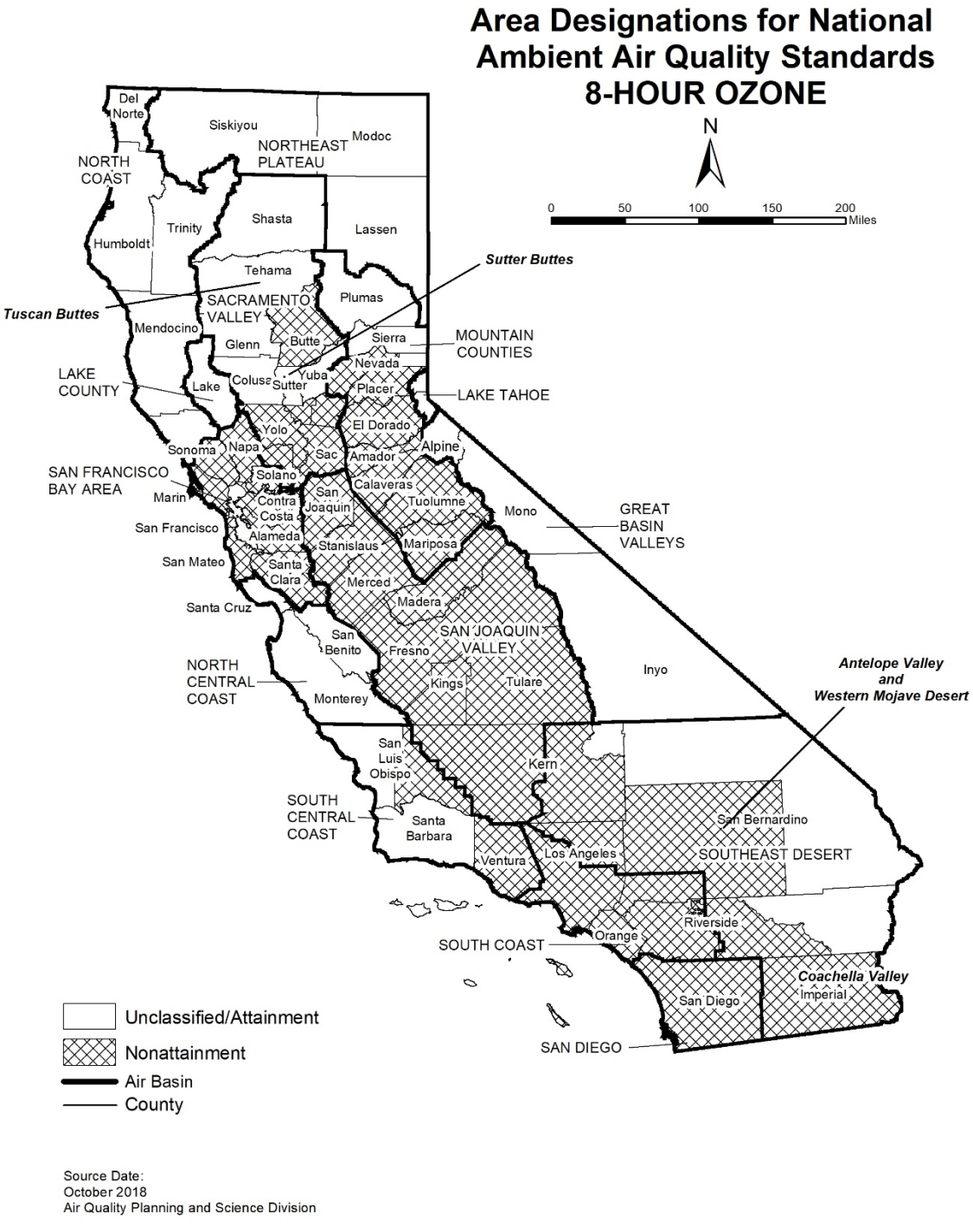

Area Designations for National Ambient Air Quality Standards
8-HOUR OZONE
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehama
Sutter Buttes
Tuscan Buttes
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Lake
Colusa
Sutter
Yuba
Placer
LAKE TAHOE
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
SAN FRANCISCO BAY AREA
Solano
Marin
Contra Costa
San Joaquin
Calaveras
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
San Benito
SAN JOAQUIN VALLEY
Fresno
NORTH CENTRAL COAST
Kings
Tulare
Inyo
Antelope Valley and Western Mojave Desert
Monterey
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
SOUTHEAST DESERT
Riverside
Orange
SOUTH COAST
Coachella Valley
Imperial
San Diego
SAN DIEGO
Unclassified/Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 11

National Ambient Air Quality Standards
Area Designations for 8-Hour Ozone*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN (cont.)		
LAKE COUNTY AIR BASIN		X	Yolo County (2)	X	
LAKE TAHOE AIR BASIN		X	Yuba County		X
MOUNTAIN COUNTIES AIR BASIN			SAN DIEGO COUNTY	X	
Amador County	X		SAN FRANCISCO BAY AREA AIR BASIN	X	
Calaveras County	X		SAN JOAQUIN VALLEY AIR BASIN	X	
El Dorado County (portion) (2)	X		SOUTH CENTRAL COAST AIR BASIN (1)		
Mariposa County	X		San Luis Obispo County		
Nevada County			- Eastern San Luis Obispo County	X	
- Western Nevada County	X		- Remainder of County		X
- Remainder of County		X	Santa Barbara County		X
Placer County (portion) (2)	X		Ventura County		
Plumas County		X	- Area excluding Anacapa and San Nicolas Islands	X	
Sierra County		X	- Channel Islands (1)		X
Tuolumne County	X		SOUTH COAST AIR BASIN (1)	X	
NORTH CENTRAL COAST AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
NORTH COAST AIR BASIN		X	Kern County (portion)	X	
NORTHEAST PLATEAU AIR BASIN		X	- Indian Wells Valley		X
SACRAMENTO VALLEY AIR BASIN			Imperial County	X	
Butte County	X		Los Angeles County (portion)	X	
Colusa County		X	Riverside County (portion)		
Glenn County		X	- Coachella Valley	X	
Sacramento Metro Area (2)	X		- Non-AQMA portion		X
Shasta County		X	San Bernardino County		
Sutter County			- Western portion (AQMA)	X	
- Sutter Buttes	X		- Eastern portion (non-AQMA)		X
- Southern portion of Sutter County (2)	X				
- Remainder of Sutter County		X			
Tehama County					
- Tuscan Buttes	X				
- Remainder of Tehama County		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

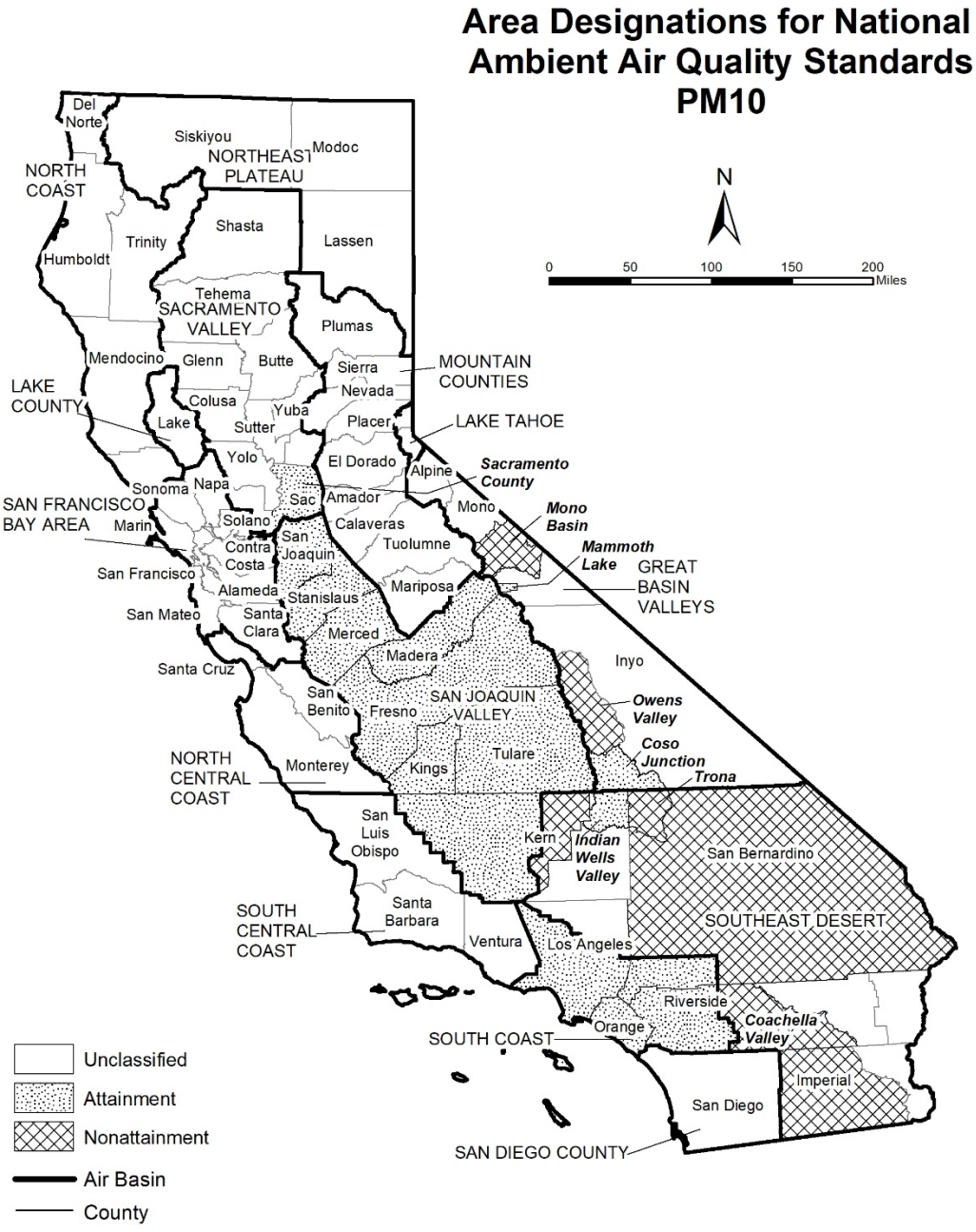
NOTE: This map and table reflect the 2015 8-hour ozone standard of 0.070 ppm.

(1) South Central Coast Air Basin Channel Islands:
Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.
Ventura County includes Anacapa and San Nicolas Islands.

South Coast Air Basin:
Los Angeles County includes San Clemente and Santa Catalina Islands.

(2) For this purpose, the Sacramento Metro Area comprises all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, the southern portion of Sutter County, and the Sacramento Valley and Mountain Counties Air Basins portions of Placer and El Dorado counties.

FIGURE 12



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 12

National Ambient Air Quality Standards
Area Designations for Suspended Particulate Matter (PM10)*

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN				SAN DIEGO COUNTY		X	
Alpine County		X		SAN FRANCISCO BAY AREA AIR BASIN		X	
Inyo County				SAN JOAQUIN VALLEY AIR BASIN			X
- Owens Valley Planning Area	X			SOUTH CENTRAL COAST AIR BASIN		X	
- Coso Junction			X	SOUTH COAST AIR BASIN			X
- Remainder of County		X		SOUTHEAST DESERT AIR BASIN			
Mono County				Eastern Kern County			
- Mammoth Lake Planning Area			X	- Indian Wells Valley			X
- Mono Lake Basin	X			- Portion within San Joaquin Valley Planning Area	X		
- Remainder of County		X		- Remainder of County		X	
LAKE COUNTY AIR BASIN		X		Imperial County			
LAKE TAHOE AIR BASIN		X		- Imperial Valley Planning Area	X		
MOUNTAIN COUNTIES AIR BASIN				- Remainder of County		X	
Placer County (portion) (2)		X		Los Angeles County (portion)		X	
Remainder of Air Basin		X		Riverside County (portion)			
NORTH CENTRAL COAST AIR BASIN		X		- Coachella Valley (3)	X		
NORTH COAST AIR BASIN		X		- Non-AQMA portion		X	
NORTHEAST PLATEAU AIR BASIN		X		San Bernardino County			
SACRAMENTO VALLEY AIR BASIN				- Trona	X		
Butte County		X		- Remainder of County	X		
Colusa County		X					
Glenn County		X					
Placer County (portion) (2)		X					
Sacramento County (1)			X				
Shasta County		X					
Solano County (portion)		X					
Sutter County		X					
Tehama County		X					
Yolo County		X					
Yuba County		X					

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.
(1) Air quality in Sacramento County meets the national PM10 standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.
(2) U.S. EPA designation puts the Sacramento Valley Air Basin portion of Placer County in the Mountain Counties Air Basin.
(3) Air quality in Coachella Valley meets the national PM10 standards. A request for redesignation to attainment has been submitted to U.S. EPA.

FIGURE 13


Area Designations for National Ambient Air Quality Standards PM2.5
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTH COAST
NORTHEAST PLATEAU
Humboldt
Trinity
Shasta
Lassen
Tehama
SACRAMENTO VALLEY
Plumas
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Mendocino
Nevada
LAKE COUNTY
Colusa
Yuba
Placer
Lake
Sutter
LAKE TAHOE
El Dorado
Yolo
Sonoma
Napa
Sacramento
Alpine
Amador
Solano
Calaveras
SAN FRANCISCO BAY AREA
Marin
Tuolumne
GREAT BASIN VALLEYS
Contra Costa
San Joaquin
Mono
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
Fresno
NORTH CENTRAL COAST
San Benito
SAN JOAQUIN VALLEY
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
SOUTHEAST DESERT
Ventura
Los Angeles
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 13

National Ambient Air Quality Standards
Area Designations for Fine Particulate Matter (PM2.5)*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN (2)	X	
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN	X	
MOUNTAIN COUNTIES AIR BASIN			SOUTH CENTRAL COAST AIR BASIN		X
Plumas County			SOUTH COAST AIR BASIN (3)	X	
- Portola Valley Portion of Plumas	X		SOUTHEAST DESERT AIR BASIN		
- Remainder of Plumas County		X	Imperial County (portion) (4)	X	
Remainder of Air Basin		X	Remainder of Air Basin		X
NORTH CENTRAL COAST AIR BASIN		X			
NORTH COAST AIR BASIN		X			
NORTHEAST PLATEAU AIR BASIN		X			
SACRAMENTO VALLEY AIR BASIN					
Sacramento Metro Area (1)	X				
Sutter County		X			
Yuba County (portion)		X			
Remainder of Air Basin		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour PM2.5 standard as well as the 1997 and 2012 PM2.5 annual standards.

(1) For this purpose, Sacramento Metro Area comprises all of Sacramento and portions of El Dorado, Placer, Solano, and Yolo Counties. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

(2) Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

(3) Those lands of the Santa Rosa Band of Cahulla Mission Indians in Riverside County are designated Unclassifiable/Attainment.

(4) That portion of Imperial County encompassing the urban and surrounding areas of Brawley, Calexico, El Centro, Heber, Holtville, Imperial, Seeley, and Westmorland. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

FIGURE 14



Source Date:
October 2018
Air Quality Planning and Science Division

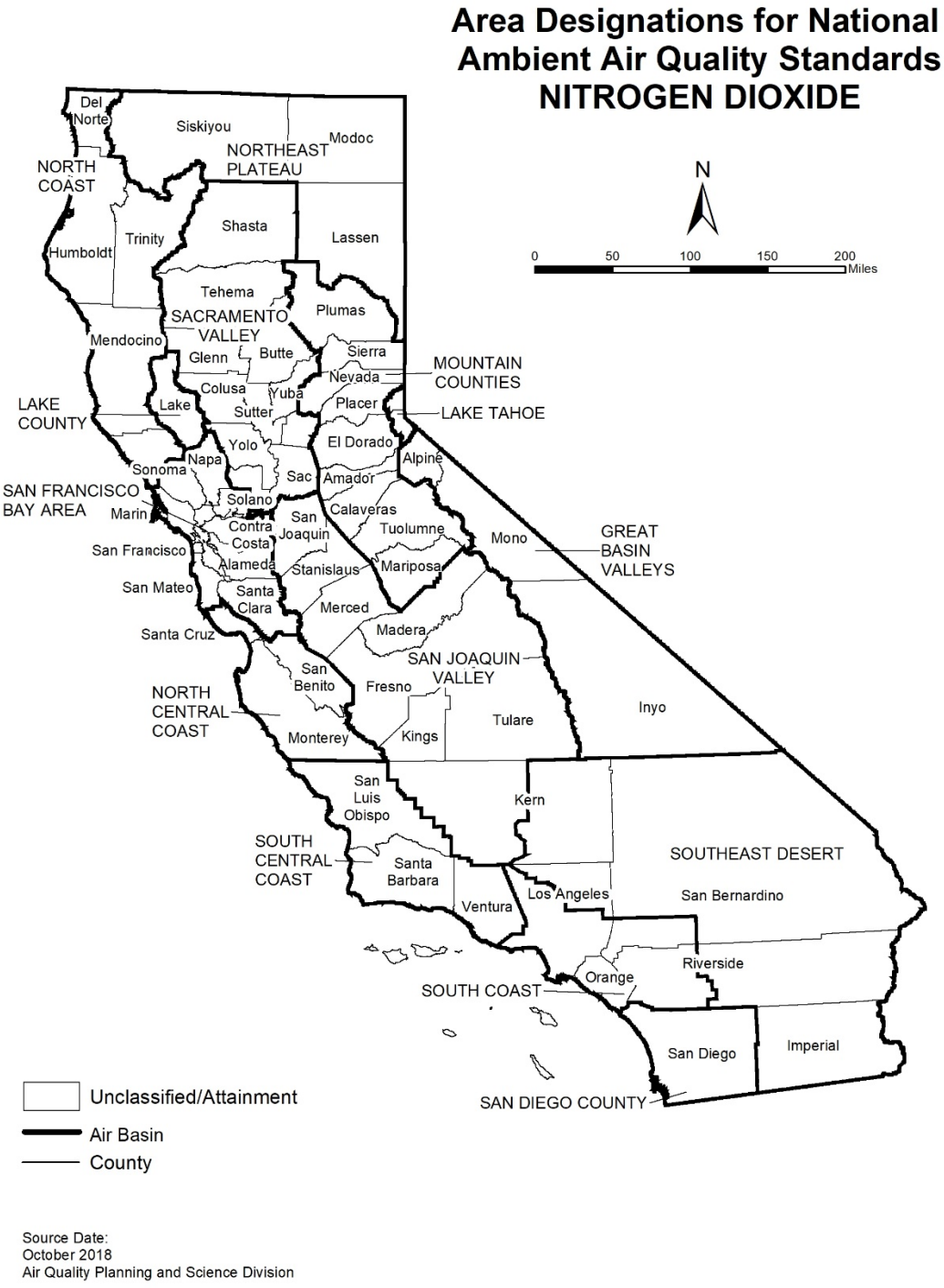
TABLE 14

National Ambient Air Quality Standards
Area Designations for Carbon Monoxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

FIGURE 15



Source Date:
October 2018
Air Quality Planning and Science Division

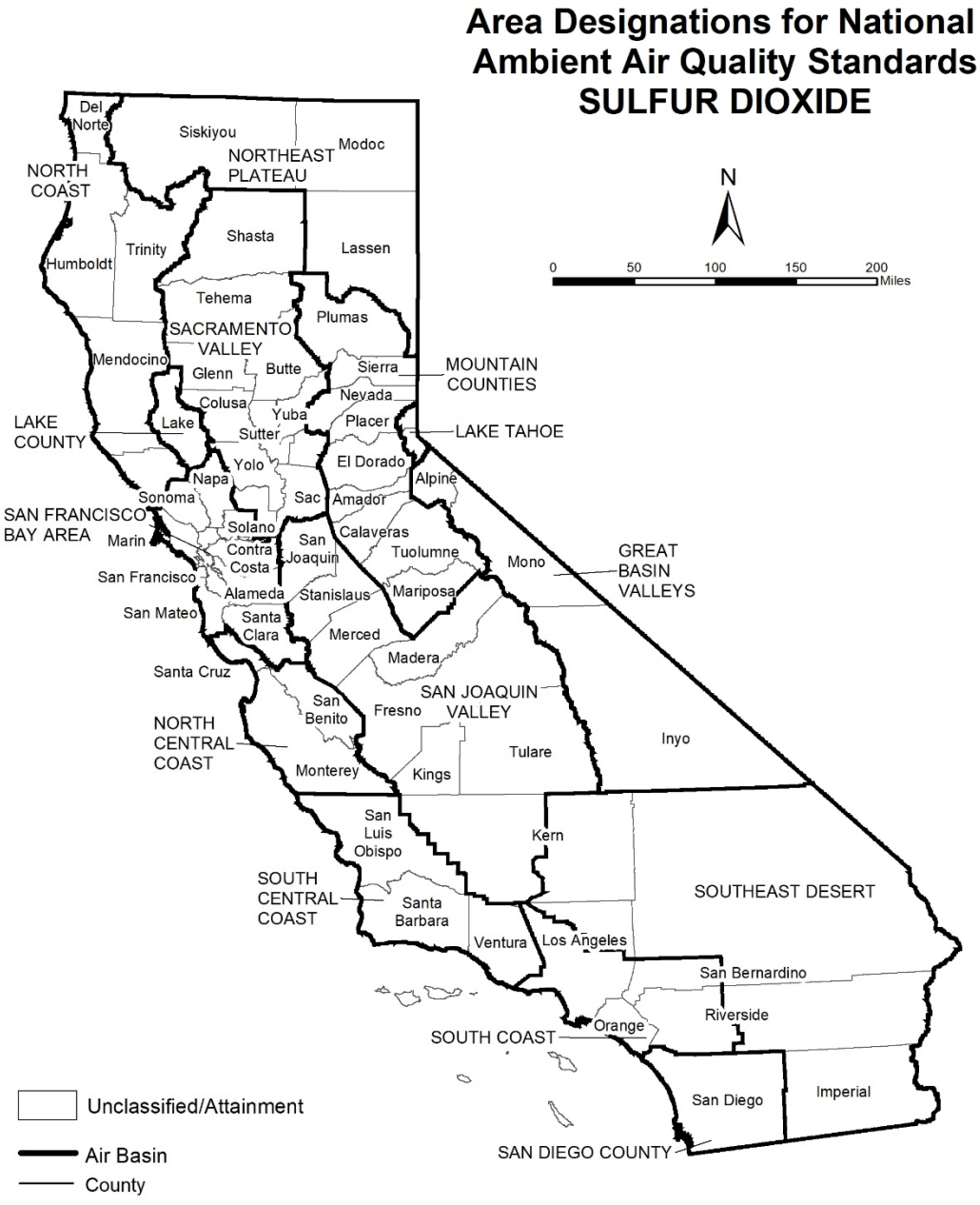
TABLE 15

National Ambient Air Quality Standards
Area Designations for Nitrogen Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

FIGURE 16



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 16

National Ambient Air Quality Standards
Area Designations for Sulfur Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		
LAKE COUNTY AIR BASIN		X	San Luis Obispo County		X
LAKE TAHOE AIR BASIN		X	Santa Barbara County		X
MOUNTAIN COUNTIES AIR BASIN		X	Ventura County		X
NORTH CENTRAL COAST AIR BASIN		X	Channel Islands (1)		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
SACRAMENTO VALLEY AIR BASIN		X	Imperial County		X
SAN DIEGO COUNTY		X	Remainder of Air Basin		X
SAN FRANCISCO BAY AREA AIR BASIN		X			
SAN JOAQUIN VALLEY AIR BASIN					
Fresno County		X			
Kern County (portion)		X			
Kings County		X			
Madera County		X			
Merced County		X			
San Joaquin County		X			
Stanislaus County		X			
Tulare County		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and table reflect the 2010 1-hour SO_2 standard of 75 ppb.

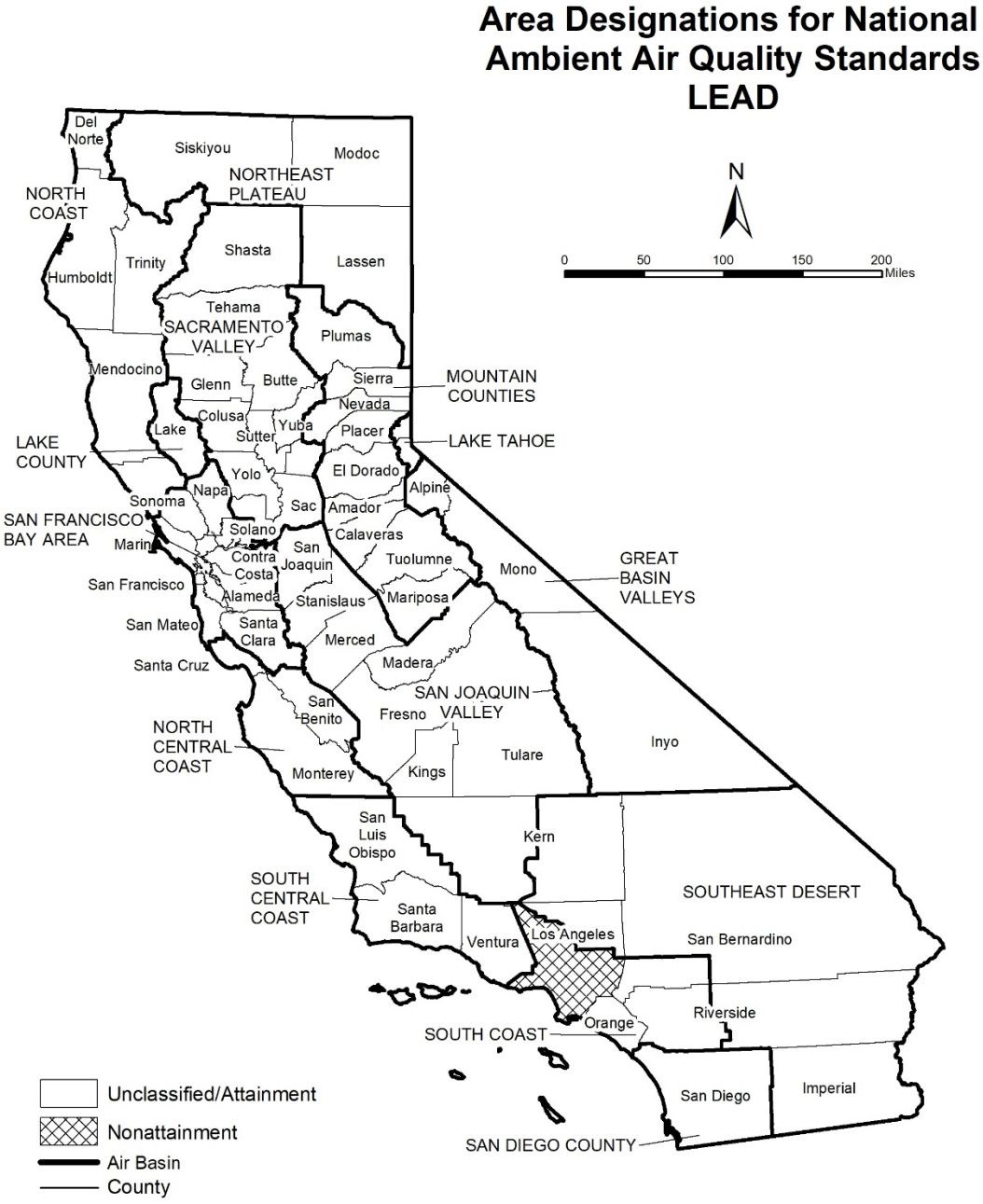
(1) South Central Coast Air Basin Channel Islands:

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

Ventura County includes Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.

FIGURE 17



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 17

National Ambient Air Quality Standards
Area Designations for Lead (particulate)

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH COAST AIR BASIN		
NORTH COAST AIR BASIN		X	Los Angeles County (portion) (1)	X	
NORTHEAST PLATEAU AIR BASIN		X	Remainder of Air Basin		X
SACRAMENTO VALLEY AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

(1) Portion of County in Air Basin, not including Channel Islands

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APPENDIX 3.1:

CALEEMOD CONSTRUCTION (UNMITIGATED) EMISSIONS MODEL OUTPUTS

Pioneer Boulevard Development (Construction - Unmitigated)

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	163.52	1000sqft	3.75	163,518.00	0
Other Asphalt Surfaces	136.53	1000sqft	3.13	136,533.00	0
Other Non-Asphalt Surfaces	39.09	1000sqft	0.90	39,093.00	0
Parking Lot	271.00	Space	0.55	24,137.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Pioneer Boulevard Development (Construction - Unmitigated) - South Coast AQMD Air District, Summer

Project Characteristics -

Land Use - Total Project Area is roughly 8.34 acres.

Construction Phase - Construction expected to being Summer 2020 and end Summer 2021.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment -

Demolition -

Grading - Total Acres Graded based on Construction Schedule and Equipment List. Site Preparation will disturb 1.5 acres per day and Grading will disturb 1.0 acres per day.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstructionPhase	NumDays	20.00	40.00
tblEnergyUse	LightingElect	3.10	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	5.75	0.00
tblEnergyUse	NT24NG	4.45	0.00

tblEnergyUse	T24E	2.25	0.00
tblEnergyUse	T24NG	13.65	0.00
tblGrading	AcresOfGrading	10.00	20.00
tblGrading	AcresOfGrading	0.00	15.00
tblGrading	MaterialImported	0.00	9,500.00
tblLandUse	LandUseSquareFeet	163,520.00	163,518.00
tblLandUse	LandUseSquareFeet	136,530.00	136,533.00
tblLandUse	LandUseSquareFeet	39,090.00	39,093.00
tblLandUse	LandUseSquareFeet	108,400.00	24,137.00
tblLandUse	LotAcreage	2.44	0.55
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	202.76	0.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.69	6.18
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.90	7.9880e-003
tblVehicleEF	HHD	4,950.31	1,194.39
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.19	6.50
tblVehicleEF	HHD	3.79	3.84
tblVehicleEF	HHD	0.02	9.3830e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	8.9770e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.67	0.48
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.79	0.55
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	HHD	0.71	0.03
tblVehicleEF	HHD	0.09	0.08

tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.96	6.03
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.75	7.5840e-003
tblVehicleEF	HHD	5,242.63	1,192.05
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.90	6.33
tblVehicleEF	HHD	3.59	3.63
tblVehicleEF	HHD	0.01	8.7460e-003
tblVehicleEF	HHD	0.06	0.06
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tblVehicleEF	HHD	0.01	8.3670e-003
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tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
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tblVehicleEF	HHD	4.5010e-003	2.4900e-004
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tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.07	2.0000e-006
tblVehicleEF	HHD	0.05	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3600e-004	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
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tblVehicleEF	HHD	1.1700e-004	7.0000e-006
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tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.81	0.02
tblVehicleEF	HHD	0.09	4.9680e-003
tblVehicleEF	HHD	0.09	0.00
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tblVehicleEF	HHD	0.97	0.46
tblVehicleEF	HHD	2.92	8.0430e-003
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tblVehicleEF	HHD	1,610.72	1,429.60
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	21.21	6.63
tblVehicleEF	HHD	3.74	3.74
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
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tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
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tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8180e-003	8.7430e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
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tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
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tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.12
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	LDA	5.2110e-003	3.1430e-003
tblVehicleEF	LDA	5.8420e-003	0.05
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tblVehicleEF	LDA	58.96	54.77
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.08	0.24
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tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	5.5820e-003	3.3870e-003
tblVehicleEF	LDA	5.1760e-003	0.05
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tblVehicleEF	LDA	1.04	1.84
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tblVehicleEF	LDA	58.96	54.19
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tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003

tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.9060e-003	2.8520e-003
tblVehicleEF	LDA	6.0700e-004	5.3600e-004
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	5.0990e-003	3.0730e-003
tblVehicleEF	LDA	5.9770e-003	0.05
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tblVehicleEF	LDA	58.96	54.89
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003

tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.7100e-003	2.6660e-003
tblVehicleEF	LDA	6.1100e-004	5.4300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDT1	0.01	8.2650e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.65	1.56
tblVehicleEF	LDT1	3.08	2.36
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tblVehicleEF	LDT1	71.61	65.44
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22

tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	3.4200e-003	3.1980e-003
tblVehicleEF	LDT1	7.7000e-004	6.4800e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
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tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	0.02	8.8400e-003
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tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
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tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.17	0.71
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tblVehicleEF	LDT1	3.5920e-003	3.3400e-003
tblVehicleEF	LDT1	7.6200e-004	6.4100e-004
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tblVehicleEF	LDT1	0.15	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	3.3630e-003	3.1500e-003
tblVehicleEF	LDT1	7.7200e-004	6.4900e-004
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tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	7.0440e-003	5.0890e-003
tblVehicleEF	LDT2	7.1880e-003	0.07
tblVehicleEF	LDT2	0.84	1.06
tblVehicleEF	LDT2	1.49	2.74
tblVehicleEF	LDT2	382.63	349.24
tblVehicleEF	LDT2	81.02	71.19
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tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
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tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34
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tblVehicleEF	LDT2	8.3500e-004	7.0500e-004

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	7.5350e-003	5.4660e-003
tblVehicleEF	LDT2	6.3730e-003	0.06
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tblVehicleEF	LDT2	402.38	363.41
tblVehicleEF	LDT2	81.02	70.44
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	4.0320e-003	3.5950e-003
tblVehicleEF	LDT2	8.3200e-004	6.9700e-004
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LDT2	6.8940e-003	4.9780e-003
tblVehicleEF	LDT2	7.3550e-003	0.07
tblVehicleEF	LDT2	0.81	1.02
tblVehicleEF	LDT2	1.53	2.82
tblVehicleEF	LDT2	376.06	344.49
tblVehicleEF	LDT2	81.02	71.35
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LDT2	3.7670e-003	3.4080e-003
tblVehicleEF	LDT2	8.3600e-004	7.0600e-004
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tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.38
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tblVehicleEF	LHD1	0.91	0.71
tblVehicleEF	LHD1	2.81	1.13
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.37
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.31	0.90
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.55

tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2200e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6820e-003
tblVehicleEF	LHD1	0.01	6.1380e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.92	0.72
tblVehicleEF	LHD1	2.68	1.08
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.71
tblVehicleEF	LHD1	33.50	12.28
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.23	0.84
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
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tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004

tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0030e-003	6.5590e-003
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tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
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tblVehicleEF	LHD1	0.30	0.54
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tblVehicleEF	LHD1	5.8640e-003	5.6670e-003
tblVehicleEF	LHD1	0.01	5.9900e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.70
tblVehicleEF	LHD1	2.82	1.14
tblVehicleEF	LHD1	9.00	9.05

tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.38
tblVehicleEF	LHD1	0.08	0.06
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tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
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tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2300e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.09	0.07

tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	4.2390e-003	4.0130e-003
tblVehicleEF	LHD2	4.8300e-003	4.2070e-003
tblVehicleEF	LHD2	9.6290e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.43	0.76
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.60
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.93	1.09
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
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tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
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tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.35

tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0220e-003
tblVehicleEF	LHD2	4.8960e-003	4.2550e-003
tblVehicleEF	LHD2	9.2930e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.37	0.73
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.95
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tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003

tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
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tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0600e-004	9.4000e-005
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0110e-003
tblVehicleEF	LHD2	4.8130e-003	4.1960e-003
tblVehicleEF	LHD2	9.6860e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.40	0.48
tblVehicleEF	LHD2	1.44	0.77
tblVehicleEF	LHD2	13.72	13.73

tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.61
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.92	1.07
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
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tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.06	0.06

tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	MCY	0.50	0.37
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.08	19.33
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	182.36	218.96
tblVehicleEF	MCY	45.23	60.14
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
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tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.49	2.50
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.2100e-003	2.1670e-003
tblVehicleEF	MCY	6.7000e-004	5.9500e-004
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	3.08	3.10
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.24	1.99

tblVehicleEF	MCY	0.49	0.36
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.59	18.81
tblVehicleEF	MCY	8.86	7.79
tblVehicleEF	MCY	182.36	217.93
tblVehicleEF	MCY	45.23	58.33
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.2010e-003	2.1570e-003
tblVehicleEF	MCY	6.5100e-004	5.7700e-004
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	3.02	3.03
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.51	0.37
tblVehicleEF	MCY	0.15	0.24

tblVehicleEF	MCY	19.10	19.35
tblVehicleEF	MCY	9.72	8.59
tblVehicleEF	MCY	182.36	219.02
tblVehicleEF	MCY	45.23	60.39
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	2.49	2.51
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	2.2110e-003	2.1670e-003
tblVehicleEF	MCY	6.7300e-004	5.9800e-004
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	3.09	3.11
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	7.0560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.48	1.33
tblVehicleEF	MDV	2.84	3.27

tblVehicleEF	MDV	515.44	429.05
tblVehicleEF	MDV	107.59	87.05
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.08	0.10
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tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.22	0.44
tblVehicleEF	MDV	5.1660e-003	4.2420e-003
tblVehicleEF	MDV	1.1260e-003	8.6100e-004
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.01	7.5220e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.63	1.46
tblVehicleEF	MDV	2.45	2.79
tblVehicleEF	MDV	541.84	444.43
tblVehicleEF	MDV	107.59	86.14

tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.39
tblVehicleEF	MDV	5.4320e-003	4.3940e-003
tblVehicleEF	MDV	1.1190e-003	8.5200e-004
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.43
tblVehicleEF	MDV	0.01	6.9160e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.43	1.28
tblVehicleEF	MDV	2.92	3.36
tblVehicleEF	MDV	506.79	424.01
tblVehicleEF	MDV	107.59	87.24
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	2.1880e-003	2.0180e-003

tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.23	0.45
tblVehicleEF	MDV	5.0790e-003	4.1920e-003
tblVehicleEF	MDV	1.1270e-003	8.6300e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.61	0.31
tblVehicleEF	MH	6.11	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.32	3.91
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0200e-004	0.00
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tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.69	0.31
tblVehicleEF	MH	5.74	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.22	3.69
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	6.9500e-004	0.00
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tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.59	0.31
tblVehicleEF	MH	6.16	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.30	3.84
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
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tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MHD	0.02	4.2430e-003
tblVehicleEF	MHD	4.8740e-003	6.7470e-003
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tblVehicleEF	MHD	0.37	0.38
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.44	1.34
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tblVehicleEF	MHD	1,139.95	1,077.13
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tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	3.4700e-004	1.7400e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
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tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.3390e-003	6.3300e-004
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tblVehicleEF	MHD	7.2800e-004	1.1400e-004
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tblVehicleEF	MHD	0.05	0.02
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tblVehicleEF	MHD	7.7200e-004	3.9300e-004
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tblVehicleEF	MHD	0.43	0.07
tblVehicleEF	MHD	0.02	4.0190e-003
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tblVehicleEF	MHD	0.05	0.01

tblVehicleEF	MHD	0.27	0.31
tblVehicleEF	MHD	0.37	0.63
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tblVehicleEF	MHD	1,139.95	1,077.14
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tblVehicleEF	MHD	1.11	2.10
tblVehicleEF	MHD	3.0600e-004	1.5350e-003
tblVehicleEF	MHD	5.7190e-003	0.06
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tblVehicleEF	MHD	2.9300e-004	1.4690e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	MHD	1.4170e-003	6.4400e-004
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tblVehicleEF	MHD	7.2200e-004	1.1300e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03

tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.05	0.13
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tblVehicleEF	MHD	0.42	0.06
tblVehicleEF	MHD	0.02	4.5650e-003
tblVehicleEF	MHD	4.8520e-003	6.7310e-003
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tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.50	1.35
tblVehicleEF	MHD	127.72	64.87
tblVehicleEF	MHD	1,139.95	1,077.13
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tblVehicleEF	MHD	1.16	2.19
tblVehicleEF	MHD	4.4200e-004	2.2090e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	4.2300e-004	2.1140e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
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tblVehicleEF	MHD	0.02	0.14

tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.2320e-003	6.1600e-004
tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
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tblVehicleEF	OBUS	1.8000e-004	2.2610e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.7300e-004	2.1630e-003
tblVehicleEF	OBUS	7.8190e-003	0.04

tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	9.7800e-004	8.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9100e-004	1.9600e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9090e-003
tblVehicleEF	OBUS	8.9130e-003	9.8460e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.55
tblVehicleEF	OBUS	0.60	1.04
tblVehicleEF	OBUS	5.48	2.33
tblVehicleEF	OBUS	106.24	92.40
tblVehicleEF	OBUS	1,241.90	1,424.90
tblVehicleEF	OBUS	68.87	19.61

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tblVehicleEF	OBUS	1.52	1.88
tblVehicleEF	OBUS	1.5200e-004	1.9110e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.4600e-004	1.8280e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
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tblVehicleEF	OBUS	7.8500e-004	1.9400e-004
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tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
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tblVehicleEF	OBUS	0.04	0.25
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tblVehicleEF	OBUS	0.01	8.8830e-003
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tblVehicleEF	OBUS	8.1890e-003	0.04
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tblVehicleEF	OBUS	2.1000e-004	2.6260e-003
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tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
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tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
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tblVehicleEF	UBUS	9.6900e-003	2.3330e-003

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tblVehicleEF	UBUS	8.56	1.21
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	0.81	0.09
tblVehicleEF	UBUS	0.02	0.07

tblVehicleEF	UBUS	0.73	0.06
tblVehicleEF	UBUS	9.6910e-003	2.3330e-003
tblVehicleEF	UBUS	1.2320e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	3.42	5.99
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.00	39.42
tblVehicleEF	UBUS	10.67	0.97
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.73
tblVehicleEF	UBUS	8.92	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004

tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	9.6890e-003	2.3330e-003
tblVehicleEF	UBUS	1.2600e-003	1.1600e-004
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.88	0.07
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	37,814,000.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1579	43.0029	25.7220	0.0774	19.8582	2.1989	22.0571	10.1558	2.0230	12.1788	0.0000	8,023.8232	8,023.8232	1.2681	0.0000	8,055.5261
2021	21.8658	24.8906	24.7925	0.0611	2.0942	1.0493	3.1434	0.5641	0.9851	1.5492	0.0000	6,065.0016	6,065.0016	0.8195	0.0000	6,085.4902
Maximum	**21.8658**	**43.0029**	**25.7220**	**0.0774**	**19.8582**	**2.1989**	**22.0571**	**10.1558**	**2.0230**	**12.1788**	**0.0000**	**8,023.8232**	**8,023.8232**	**1.2681**	**0.0000**	**8,055.5261**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1579	43.0029	25.7220	0.0774	7.8674	2.1989	10.0664	3.9933	2.0230	6.0163	0.0000	8,023.8232	8,023.8232	1.2681	0.0000	8,055.5261
2021	21.8658	24.8906	24.7925	0.0611	2.0942	1.0493	3.1434	0.5641	0.9851	1.5492	0.0000	6,065.0016	6,065.0016	0.8195	0.0000	6,085.4902
Maximum	**21.8658**	**43.0029**	**25.7220**	**0.0774**	**7.8674**	**2.1989**	**10.0664**	**3.9933**	**2.0230**	**6.0163**	**0.0000**	**8,023.8232**	**8,023.8232**	**1.2681**	**0.0000**	**8,055.5261**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**54.62**	**0.00**	**47.58**	**57.49**	**0.00**	**44.89**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**	**0.0000**	**2.2000e-004**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**	**0.0000**	**0.1424**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**	**0.0000**	**2.2000e-004**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**	**0.0000**	**0.1424**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/26/2020	5	20	
2	Site Preparation	Site Preparation	6/27/2020	7/10/2020	5	10	
3	Grading	Grading	7/11/2020	8/7/2020	5	20	
4	Building Construction	Building Construction	8/8/2020	6/25/2021	5	230	
5	Paving	Paving	6/26/2021	7/23/2021	5	20	
6	Architectural Coating	Architectural Coating	6/26/2021	8/20/2021	5	40	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 4.58

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 245,277; Non-Residential Outdoor: 81,759; Striped Parking Area: 11,986 (Architectural Coating – sqft)

OffRoad Equipment

Pioneer Boulevard Development (Construction - Unmitigated) - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	717.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,188.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	153.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	31.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.7601	0.0000	7.7601	1.1750	0.0000	1.1750			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**7.7601**	**1.6587**	**9.4188**	**1.1750**	**1.5419**	**2.7168**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2723	9.7563	1.9413	0.0278	0.6265	0.0315	0.6579	0.1717	0.0301	0.2018		3,005.4102	3,005.4102	0.2017		3,010.4521
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
Total	**0.3402**	**9.8019**	**2.5545**	**0.0295**	**0.7941**	**0.0327**	**0.8268**	**0.2162**	**0.0313**	**0.2474**		**3,177.0728**	**3,177.0728**	**0.2066**		**3,182.2381**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0264	0.0000	3.0264	0.4582	0.0000	0.4582			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**3.0264**	**1.6587**	**4.6851**	**0.4582**	**1.5419**	**2.0001**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2723	9.7563	1.9413	0.0278	0.6265	0.0315	0.6579	0.1717	0.0301	0.2018		3,005.4102	3,005.4102	0.2017		3,010.4521
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
Total	**0.3402**	**9.8019**	**2.5545**	**0.0295**	**0.7941**	**0.0327**	**0.8268**	**0.2162**	**0.0313**	**0.2474**		**3,177.0728**	**3,177.0728**	**0.2066**		**3,182.2381**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**19.6570**	**2.1974**	**21.8544**	**10.1025**	**2.0216**	**12.1241**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0814	0.0547	0.7359	2.0700e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		205.9951	205.9951	5.9200e-003		206.1432
Total	**0.0814**	**0.0547**	**0.7359**	**2.0700e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**205.9951**	**205.9951**	**5.9200e-003**		**206.1432**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**7.6662**	**2.1974**	**9.8636**	**3.9400**	**2.0216**	**5.9616**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0814	0.0547	0.7359	2.0700e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		205.9951	205.9951	5.9200e-003		206.1432
Total	**0.0814**	**0.0547**	**0.7359**	**2.0700e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**205.9951**	**205.9951**	**5.9200e-003**		**206.1432**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1363	0.0000	7.1363	3.4329	0.0000	3.4329			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	**2.4288**	**26.3859**	**16.0530**	**0.0297**	**7.1363**	**1.2734**	**8.4097**	**3.4329**	**1.1716**	**4.6044**		**2,872.4851**	**2,872.4851**	**0.9290**		**2,895.7106**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4512	16.1652	3.2165	0.0461	1.0380	0.0521	1.0901	0.2845	0.0499	0.3343		4,979.6755	4,979.6755	0.3342		4,988.0295
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
Total	**0.5190**	**16.2109**	**3.8297**	**0.0478**	**1.2056**	**0.0534**	**1.2590**	**0.3289**	**0.0510**	**0.3800**		**5,151.3381**	**5,151.3381**	**0.3391**		**5,159.8155**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7832	0.0000	2.7832	1.3388	0.0000	1.3388			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	**2.4288**	**26.3859**	**16.0530**	**0.0297**	**2.7832**	**1.2734**	**4.0566**	**1.3388**	**1.1716**	**2.5104**	**0.0000**	**2,872.4851**	**2,872.4851**	**0.9290**		**2,895.7106**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4512	16.1652	3.2165	0.0461	1.0380	0.0521	1.0901	0.2845	0.0499	0.3343		4,979.6755	4,979.6755	0.3342		4,988.0295
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
Total	**0.5190**	**16.2109**	**3.8297**	**0.0478**	**1.2056**	**0.0534**	**1.2590**	**0.3289**	**0.0510**	**0.3800**		**5,151.3381**	**5,151.3381**	**0.3391**		**5,159.8155**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2551	20.6494	17.9678	0.0288		1.1948	1.1948		1.1218	1.1218		2,735.6999	2,735.6999	0.6819		2,752.7481
Total	**2.2551**	**20.6494**	**17.9678**	**0.0288**		**1.1948**	**1.1948**		**1.1218**	**1.1218**		**2,735.6999**	**2,735.6999**	**0.6819**		**2,752.7481**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1971	6.2961	1.4992	0.0154	0.3840	0.0312	0.4152	0.1106	0.0298	0.1404		1,646.6907	1,646.6907	0.1034		1,649.2754
Worker	0.6922	0.4653	6.2549	0.0176	1.7102	0.0130	1.7232	0.4536	0.0120	0.4655		1,750.9587	1,750.9587	0.0503		1,752.2172
Total	**0.8893**	**6.7614**	**7.7542**	**0.0330**	**2.0942**	**0.0442**	**2.1384**	**0.5641**	**0.0418**	**0.6059**		**3,397.6494**	**3,397.6494**	**0.1537**		**3,401.4927**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2551	20.6494	17.9678	0.0288		1.1948	1.1948		1.1218	1.1218	0.0000	2,735.6999	2,735.6999	0.6819		2,752.7481
Total	**2.2551**	**20.6494**	**17.9678**	**0.0288**		**1.1948**	**1.1948**		**1.1218**	**1.1218**	**0.0000**	**2,735.6999**	**2,735.6999**	**0.6819**		**2,752.7481**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1971	6.2961	1.4992	0.0154	0.3840	0.0312	0.4152	0.1106	0.0298	0.1404		1,646.6907	1,646.6907	0.1034		1,649.2754
Worker	0.6922	0.4653	6.2549	0.0176	1.7102	0.0130	1.7232	0.4536	0.0120	0.4655		1,750.9587	1,750.9587	0.0503		1,752.2172
Total	**0.8893**	**6.7614**	**7.7542**	**0.0330**	**2.0942**	**0.0442**	**2.1384**	**0.5641**	**0.0418**	**0.6059**		**3,397.6494**	**3,397.6494**	**0.1537**		**3,401.4927**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625		2,736.0438	2,736.0438	0.6751		2,752.9212
Total	**2.0228**	**18.7492**	**17.6706**	**0.0288**		**1.0251**	**1.0251**		**0.9625**	**0.9625**		**2,736.0438**	**2,736.0438**	**0.6751**		**2,752.9212**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1670	5.7225	1.3580	0.0153	0.3840	0.0115	0.3955	0.1106	0.0110	0.1216		1,634.6308	1,634.6308	0.0989		1,637.1028
Worker	0.6459	0.4189	5.7639	0.0170	1.7102	0.0126	1.7228	0.4536	0.0116	0.4651		1,694.3271	1,694.3271	0.0456		1,695.4661
Total	**0.8128**	**6.1414**	**7.1218**	**0.0323**	**2.0942**	**0.0241**	**2.1183**	**0.5641**	**0.0226**	**0.5867**		**3,328.9579**	**3,328.9579**	**0.1444**		**3,332.5690**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625	0.0000	2,736.0438	2,736.0438	0.6751		2,752.9212
Total	**2.0228**	**18.7492**	**17.6706**	**0.0288**		**1.0251**	**1.0251**		**0.9625**	**0.9625**	**0.0000**	**2,736.0438**	**2,736.0438**	**0.6751**		**2,752.9212**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1670	5.7225	1.3580	0.0153	0.3840	0.0115	0.3955	0.1106	0.0110	0.1216		1,634.6308	1,634.6308	0.0989		1,637.1028
Worker	0.6459	0.4189	5.7639	0.0170	1.7102	0.0126	1.7228	0.4536	0.0116	0.4651		1,694.3271	1,694.3271	0.0456		1,695.4661
Total	**0.8128**	**6.1414**	**7.1218**	**0.0323**	**2.0942**	**0.0241**	**2.1183**	**0.5641**	**0.0226**	**0.5867**		**3,328.9579**	**3,328.9579**	**0.1444**		**3,332.5690**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7376**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0411	0.5651	1.6700e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		166.1105	166.1105	4.4700e-003		166.2222
Total	**0.0633**	**0.0411**	**0.5651**	**1.6700e-003**	**0.1677**	**1.2300e-003**	**0.1689**	**0.0445**	**1.1400e-003**	**0.0456**		**166.1105**	**166.1105**	**4.4700e-003**		**166.2222**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7376**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0411	0.5651	1.6700e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		166.1105	166.1105	4.4700e-003		166.2222
Total	**0.0633**	**0.0411**	**0.5651**	**1.6700e-003**	**0.1677**	**1.2300e-003**	**0.1689**	**0.0445**	**1.1400e-003**	**0.0456**		**166.1105**	**166.1105**	**4.4700e-003**		**166.2222**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	19.6421					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255		375.2641	375.2641	0.0258		375.9079
Total	**19.9340**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**		**375.2641**	**375.2641**	**0.0258**		**375.9079**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1309	0.0849	1.1679	3.4500e-003	0.3465	2.5500e-003	0.3491	0.0919	2.3500e-003	0.0942		343.2950	343.2950	9.2300e-003		343.5258
Total	**0.1309**	**0.0849**	**1.1679**	**3.4500e-003**	**0.3465**	**2.5500e-003**	**0.3491**	**0.0919**	**2.3500e-003**	**0.0942**		**343.2950**	**343.2950**	**9.2300e-003**		**343.5258**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	19.6421					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255	0.0000	375.2641	375.2641	0.0258		375.9079
Total	**19.9340**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**	**0.0000**	**375.2641**	**375.2641**	**0.0258**		**375.9079**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1309	0.0849	1.1679	3.4500e-003	0.3465	2.5500e-003	0.3491	0.0919	2.3500e-003	0.0942		343.2950	343.2950	9.2300e-003		343.5258
Total	**0.1309**	**0.0849**	**1.1679**	**3.4500e-003**	**0.3465**	**2.5500e-003**	**0.3491**	**0.0919**	**2.3500e-003**	**0.0942**		**343.2950**	**343.2950**	**9.2300e-003**		**343.5258**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Non-Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Unmitigated	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8400e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**		**0.1424**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8400e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**		**0.1424**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Pioneer Boulevard Development (Construction - Unmitigated)

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	163.52	1000sqft	3.75	163,518.00	0
Other Asphalt Surfaces	136.53	1000sqft	3.13	136,533.00	0
Other Non-Asphalt Surfaces	39.09	1000sqft	0.90	39,093.00	0
Parking Lot	271.00	Space	0.55	24,137.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area is roughly 8.34 acres.

Construction Phase - Construction expected to being Summer 2020 and end Summer 2021.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment -

Demolition -

Grading - Total Acres Graded based on Construction Schedule and Equipment List. Site Preparation will disturb 1.5 acres per day and Grading will disturb 1.0 acres per day.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstructionPhase	NumDays	20.00	40.00
tblEnergyUse	LightingElect	3.10	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	5.75	0.00
tblEnergyUse	NT24NG	4.45	0.00

tblEnergyUse	T24E	2.25	0.00
tblEnergyUse	T24NG	13.65	0.00
tblGrading	AcresOfGrading	10.00	20.00
tblGrading	AcresOfGrading	0.00	15.00
tblGrading	MaterialImported	0.00	9,500.00
tblLandUse	LandUseSquareFeet	163,520.00	163,518.00
tblLandUse	LandUseSquareFeet	136,530.00	136,533.00
tblLandUse	LandUseSquareFeet	39,090.00	39,093.00
tblLandUse	LandUseSquareFeet	108,400.00	24,137.00
tblLandUse	LotAcreage	2.44	0.55
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	202.76	0.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.69	6.18
tblVehicleEF	HHD	0.97	0.65
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tblVehicleEF	HHD	1,610.72	1,479.86
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tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
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tblVehicleEF	HHD	0.02	8.9770e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.67	0.48
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
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tblVehicleEF	HHD	7.5000e-005	4.0000e-006
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tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	HHD	0.71	0.03
tblVehicleEF	HHD	0.09	0.08

tblVehicleEF	HHD	0.08	0.00
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tblVehicleEF	HHD	1,610.72	1,479.86
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tblVehicleEF	HHD	3.5600e-004	1.2610e-003
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tblVehicleEF	HHD	0.05	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3600e-004	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
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tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.81	0.02
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tblVehicleEF	HHD	0.97	0.46
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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	9.5750e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8180e-003	8.7430e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
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tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
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tblVehicleEF	LDA	2.2900e-003	1.9370e-003

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tblVehicleEF	LDA	0.06	0.08
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tblVehicleEF	LDA	0.07	0.21
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tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.02	0.02
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tblVehicleEF	LDA	2.2900e-003	1.9370e-003
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tblVehicleEF	LDA	0.04	0.05
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tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
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tblVehicleEF	LDT1	0.02	0.08
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tblVehicleEF	LDT1	3.08	2.36
tblVehicleEF	LDT1	339.89	323.15
tblVehicleEF	LDT1	71.61	65.44
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22

tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	3.4200e-003	3.1980e-003
tblVehicleEF	LDT1	7.7000e-004	6.4800e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	0.02	8.8400e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.81	1.73
tblVehicleEF	LDT1	2.63	2.02
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tblVehicleEF	LDT1	71.61	64.74
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tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.17	0.71
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tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.01	8.0950e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.59	1.51
tblVehicleEF	LDT1	3.17	2.44
tblVehicleEF	LDT1	334.24	318.34
tblVehicleEF	LDT1	71.61	65.58
tblVehicleEF	LDT1	0.15	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	3.3630e-003	3.1500e-003
tblVehicleEF	LDT1	7.7200e-004	6.4900e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	7.0440e-003	5.0890e-003
tblVehicleEF	LDT2	7.1880e-003	0.07
tblVehicleEF	LDT2	0.84	1.06
tblVehicleEF	LDT2	1.49	2.74
tblVehicleEF	LDT2	382.63	349.24
tblVehicleEF	LDT2	81.02	71.19
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.8330e-003	3.4550e-003
tblVehicleEF	LDT2	8.3500e-004	7.0500e-004

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	7.5350e-003	5.4660e-003
tblVehicleEF	LDT2	6.3730e-003	0.06
tblVehicleEF	LDT2	0.94	1.18
tblVehicleEF	LDT2	1.28	2.34
tblVehicleEF	LDT2	402.38	363.41
tblVehicleEF	LDT2	81.02	70.44
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
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tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	4.0320e-003	3.5950e-003
tblVehicleEF	LDT2	8.3200e-004	6.9700e-004
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LDT2	6.8940e-003	4.9780e-003
tblVehicleEF	LDT2	7.3550e-003	0.07
tblVehicleEF	LDT2	0.81	1.02
tblVehicleEF	LDT2	1.53	2.82
tblVehicleEF	LDT2	376.06	344.49
tblVehicleEF	LDT2	81.02	71.35
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LDT2	3.7670e-003	3.4080e-003
tblVehicleEF	LDT2	8.3600e-004	7.0600e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.8640e-003	5.6690e-003
tblVehicleEF	LHD1	0.01	6.0180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.71
tblVehicleEF	LHD1	2.81	1.13
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.37
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.31	0.90
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
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tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.55

tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2200e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6820e-003
tblVehicleEF	LHD1	0.01	6.1380e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.92	0.72
tblVehicleEF	LHD1	2.68	1.08
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.71
tblVehicleEF	LHD1	33.50	12.28
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.23	0.84
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004

tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0030e-003	6.5590e-003
tblVehicleEF	LHD1	3.8500e-004	1.2200e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6670e-003
tblVehicleEF	LHD1	0.01	5.9900e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.70
tblVehicleEF	LHD1	2.82	1.14
tblVehicleEF	LHD1	9.00	9.05

tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.38
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.28	0.88
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
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tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2300e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.09	0.07

tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	4.2390e-003	4.0130e-003
tblVehicleEF	LHD2	4.8300e-003	4.2070e-003
tblVehicleEF	LHD2	9.6290e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.43	0.76
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.60
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.93	1.09
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.35

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tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0220e-003
tblVehicleEF	LHD2	4.8960e-003	4.2550e-003
tblVehicleEF	LHD2	9.2930e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.37	0.73
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.95
tblVehicleEF	LHD2	28.08	9.54
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.88	1.03
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
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tblVehicleEF	LHD2	1.1490e-003	1.1930e-003

tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0600e-004	9.4000e-005
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0110e-003
tblVehicleEF	LHD2	4.8130e-003	4.1960e-003
tblVehicleEF	LHD2	9.6860e-003	0.01
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tblVehicleEF	LHD2	1.44	0.77
tblVehicleEF	LHD2	13.72	13.73

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tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.92	1.07
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
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tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.06	0.06

tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	MCY	0.50	0.37
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.08	19.33
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	182.36	218.96
tblVehicleEF	MCY	45.23	60.14
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
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tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.49	2.50
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.2100e-003	2.1670e-003
tblVehicleEF	MCY	6.7000e-004	5.9500e-004
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	3.08	3.10
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.24	1.99

tblVehicleEF	MCY	0.49	0.36
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.59	18.81
tblVehicleEF	MCY	8.86	7.79
tblVehicleEF	MCY	182.36	217.93
tblVehicleEF	MCY	45.23	58.33
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.2010e-003	2.1570e-003
tblVehicleEF	MCY	6.5100e-004	5.7700e-004
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	3.02	3.03
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.51	0.37
tblVehicleEF	MCY	0.15	0.24

tblVehicleEF	MCY	19.10	19.35
tblVehicleEF	MCY	9.72	8.59
tblVehicleEF	MCY	182.36	219.02
tblVehicleEF	MCY	45.23	60.39
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	2.49	2.51
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	2.2110e-003	2.1670e-003
tblVehicleEF	MCY	6.7300e-004	5.9800e-004
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	3.09	3.11
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	7.0560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.48	1.33
tblVehicleEF	MDV	2.84	3.27

tblVehicleEF	MDV	515.44	429.05
tblVehicleEF	MDV	107.59	87.05
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.22	0.44
tblVehicleEF	MDV	5.1660e-003	4.2420e-003
tblVehicleEF	MDV	1.1260e-003	8.6100e-004
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.01	7.5220e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.63	1.46
tblVehicleEF	MDV	2.45	2.79
tblVehicleEF	MDV	541.84	444.43
tblVehicleEF	MDV	107.59	86.14

tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.39
tblVehicleEF	MDV	5.4320e-003	4.3940e-003
tblVehicleEF	MDV	1.1190e-003	8.5200e-004
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.43
tblVehicleEF	MDV	0.01	6.9160e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.43	1.28
tblVehicleEF	MDV	2.92	3.36
tblVehicleEF	MDV	506.79	424.01
tblVehicleEF	MDV	107.59	87.24
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	2.1880e-003	2.0180e-003

tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.23	0.45
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tblVehicleEF	MDV	1.1270e-003	8.6300e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.61	0.31
tblVehicleEF	MH	6.11	0.00
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tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.32	3.91
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0200e-004	0.00
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tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.03	3.3440e-003
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tblVehicleEF	MH	0.01	0.02
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tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
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tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.10	0.07
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tblVehicleEF	MH	0.01	9.1980e-003
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tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.59	0.31
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tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0300e-004	0.00
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tblVehicleEF	MH	0.09	0.00
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tblVehicleEF	MH	0.39	0.00
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tblVehicleEF	MHD	0.37	0.62
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tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	3.4700e-004	1.7400e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.3390e-003	6.3300e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2800e-004	1.1400e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
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tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.43	0.07
tblVehicleEF	MHD	0.02	4.0190e-003
tblVehicleEF	MHD	4.9460e-003	6.7970e-003
tblVehicleEF	MHD	0.05	0.01

tblVehicleEF	MHD	0.27	0.31
tblVehicleEF	MHD	0.37	0.63
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tblVehicleEF	MHD	3.0600e-004	1.5350e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	2.9300e-004	1.4690e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
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tblVehicleEF	MHD	0.02	0.12
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tblVehicleEF	MHD	0.03	0.03

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tblVehicleEF	MHD	4.4200e-004	2.2090e-003
tblVehicleEF	MHD	5.7190e-003	0.06
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tblVehicleEF	MHD	4.2300e-004	2.1140e-003
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tblVehicleEF	MHD	1.2610e-003	6.4600e-004
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tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.14

tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.2320e-003	6.1600e-004
tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	0.04	0.03
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tblVehicleEF	OBUS	1.8000e-004	2.2610e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
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tblVehicleEF	OBUS	1.7300e-004	2.1630e-003
tblVehicleEF	OBUS	7.8190e-003	0.04

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tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
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tblVehicleEF	OBUS	0.04	0.06
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tblVehicleEF	OBUS	0.06	0.11
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tblVehicleEF	OBUS	0.36	0.12
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9100e-004	1.9600e-004
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tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9090e-003
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tblVehicleEF	SBUS	0.01	3.3990e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5600e-004	5.5000e-005
tblVehicleEF	SBUS	3.6480e-003	1.0930e-003
tblVehicleEF	SBUS	0.03	8.9370e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	1.8170e-003	5.4700e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.44	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.4260e-003
tblVehicleEF	SBUS	0.06	5.8400e-003
tblVehicleEF	SBUS	7.73	2.78
tblVehicleEF	SBUS	0.82	0.73
tblVehicleEF	SBUS	6.01	0.73
tblVehicleEF	SBUS	1,199.32	365.47
tblVehicleEF	SBUS	1,098.65	1,119.97
tblVehicleEF	SBUS	52.57	5.25
tblVehicleEF	SBUS	10.38	3.52
tblVehicleEF	SBUS	4.37	4.95
tblVehicleEF	SBUS	9.1580e-003	4.0280e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	8.7620e-003	3.8540e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	0.94	0.33
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.35	0.03
tblVehicleEF	SBUS	0.01	3.4870e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3100e-004	5.2000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.3040e-003
tblVehicleEF	SBUS	0.07	6.8160e-003
tblVehicleEF	SBUS	8.03	2.88

tblVehicleEF	SBUS	0.81	0.72
tblVehicleEF	SBUS	7.81	0.95
tblVehicleEF	SBUS	1,073.80	343.43
tblVehicleEF	SBUS	1,098.65	1,119.94
tblVehicleEF	SBUS	52.57	5.62
tblVehicleEF	SBUS	9.61	3.32
tblVehicleEF	SBUS	4.57	5.17
tblVehicleEF	SBUS	0.01	5.7950e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	5.5450e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
tblVehicleEF	SBUS	0.03	9.5230e-003
tblVehicleEF	SBUS	0.95	0.33
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.2780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6100e-004	5.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
tblVehicleEF	SBUS	0.03	9.5230e-003

tblVehicleEF	SBUS	1.37	0.47
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.45	0.04
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.01	39.42
tblVehicleEF	UBUS	10.46	0.95
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.70
tblVehicleEF	UBUS	9.09	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.79	0.06
tblVehicleEF	UBUS	9.6900e-003	2.3330e-003

tblVehicleEF	UBUS	1.2560e-003	1.1600e-004
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.87	0.07
tblVehicleEF	UBUS	2.52	5.87
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.06	39.42
tblVehicleEF	UBUS	9.07	0.83
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.50
tblVehicleEF	UBUS	8.56	1.21
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	0.81	0.09
tblVehicleEF	UBUS	0.02	0.07

tblVehicleEF	UBUS	0.73	0.06
tblVehicleEF	UBUS	9.6910e-003	2.3330e-003
tblVehicleEF	UBUS	1.2320e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	3.42	5.99
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.00	39.42
tblVehicleEF	UBUS	10.67	0.97
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.73
tblVehicleEF	UBUS	8.92	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004

tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	9.6890e-003	2.3330e-003
tblVehicleEF	UBUS	1.2600e-003	1.1600e-004
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.88	0.07
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	37,814,000.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1653	43.1325	25.2711	0.0765	19.8582	2.1989	22.0571	10.1558	2.0230	12.1788	0.0000	7,921.0542	7,921.0542	1.2823	0.0000	7,953.1116
2021	21.8837	24.9121	24.3699	0.0596	2.0942	1.0496	3.1438	0.5641	0.9855	1.5496	0.0000	5,907.9168	5,907.9168	0.8238	0.0000	5,928.5109
Maximum	**21.8837**	**43.1325**	**25.2711**	**0.0765**	**19.8582**	**2.1989**	**22.0571**	**10.1558**	**2.0230**	**12.1788**	**0.0000**	**7,921.0542**	**7,921.0542**	**1.2823**	**0.0000**	**7,953.1116**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1653	43.1325	25.2711	0.0765	7.8674	2.1989	10.0664	3.9933	2.0230	6.0163	0.0000	7,921.0542	7,921.0542	1.2823	0.0000	7,953.1116
2021	21.8837	24.9121	24.3699	0.0596	2.0942	1.0496	3.1438	0.5641	0.9855	1.5496	0.0000	5,907.9168	5,907.9168	0.8238	0.0000	5,928.5109
Maximum	**21.8837**	**43.1325**	**25.2711**	**0.0765**	**7.8674**	**2.1989**	**10.0664**	**3.9933**	**2.0230**	**6.0163**	**0.0000**	**7,921.0542**	**7,921.0542**	**1.2823**	**0.0000**	**7,953.1116**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**54.62**	**0.00**	**47.58**	**57.49**	**0.00**	**44.89**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**	**0.0000**	**2.2000e-004**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**	**0.0000**	**0.1424**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**	**0.0000**	**2.2000e-004**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**	**0.0000**	**0.1424**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/26/2020	5	20	
2	Site Preparation	Site Preparation	6/27/2020	7/10/2020	5	10	
3	Grading	Grading	7/11/2020	8/7/2020	5	20	
4	Building Construction	Building Construction	8/8/2020	6/25/2021	5	230	
5	Paving	Paving	6/26/2021	7/23/2021	5	20	
6	Architectural Coating	Architectural Coating	6/26/2021	8/20/2021	5	40	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 4.58

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 245,277; Non-Residential Outdoor: 81,759; Striped Parking Area: 11,986 (Architectural Coating – sqft)

OffRoad Equipment

Pioneer Boulevard Development (Construction - Unmitigated) - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	717.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,188.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	153.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	31.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.7601	0.0000	7.7601	1.1750	0.0000	1.1750			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**7.7601**	**1.6587**	**9.4188**	**1.1750**	**1.5419**	**2.7168**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2801	9.8816	2.0898	0.0273	0.6265	0.0319	0.6584	0.1717	0.0306	0.2022		2,950.0895	2,950.0895	0.2104		2,955.3503
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0740	0.0500	0.5521	1.6100e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		160.5547	160.5547	4.6000e-003		160.6699
Total	**0.3541**	**9.9315**	**2.6419**	**0.0289**	**0.7941**	**0.0332**	**0.8273**	**0.2162**	**0.0317**	**0.2479**		**3,110.6442**	**3,110.6442**	**0.2150**		**3,116.0202**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0264	0.0000	3.0264	0.4582	0.0000	0.4582			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**3.0264**	**1.6587**	**4.6851**	**0.4582**	**1.5419**	**2.0001**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2801	9.8816	2.0898	0.0273	0.6265	0.0319	0.6584	0.1717	0.0306	0.2022		2,950.0895	2,950.0895	0.2104		2,955.3503
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0740	0.0500	0.5521	1.6100e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		160.5547	160.5547	4.6000e-003		160.6699
Total	**0.3541**	**9.9315**	**2.6419**	**0.0289**	**0.7941**	**0.0332**	**0.8273**	**0.2162**	**0.0317**	**0.2479**		**3,110.6442**	**3,110.6442**	**0.2150**		**3,116.0202**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**19.6570**	**2.1974**	**21.8544**	**10.1025**	**2.0216**	**12.1241**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0599	0.6626	1.9300e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		192.6657	192.6657	5.5300e-003		192.8038
Total	**0.0888**	**0.0599**	**0.6626**	**1.9300e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**192.6657**	**192.6657**	**5.5300e-003**		**192.8038**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**7.6662**	**2.1974**	**9.8636**	**3.9400**	**2.0216**	**5.9616**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0599	0.6626	1.9300e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		192.6657	192.6657	5.5300e-003		192.8038
Total	**0.0888**	**0.0599**	**0.6626**	**1.9300e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**192.6657**	**192.6657**	**5.5300e-003**		**192.8038**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1363	0.0000	7.1363	3.4329	0.0000	3.4329			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	**2.4288**	**26.3859**	**16.0530**	**0.0297**	**7.1363**	**1.2734**	**8.4097**	**3.4329**	**1.1716**	**4.6044**		**2,872.4851**	**2,872.4851**	**0.9290**		**2,895.7106**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4641	16.3728	3.4625	0.0452	1.0380	0.0529	1.0909	0.2845	0.0506	0.3351		4,888.0144	4,888.0144	0.3487		4,896.7311
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0740	0.0500	0.5521	1.6100e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		160.5547	160.5547	4.6000e-003		160.6699
Total	**0.5381**	**16.4227**	**4.0147**	**0.0468**	**1.2056**	**0.0542**	**1.2598**	**0.3289**	**0.0518**	**0.3807**		**5,048.5691**	**5,048.5691**	**0.3533**		**5,057.4009**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7832	0.0000	2.7832	1.3388	0.0000	1.3388			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	**2.4288**	**26.3859**	**16.0530**	**0.0297**	**2.7832**	**1.2734**	**4.0566**	**1.3388**	**1.1716**	**2.5104**	**0.0000**	**2,872.4851**	**2,872.4851**	**0.9290**		**2,895.7106**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4641	16.3728	3.4625	0.0452	1.0380	0.0529	1.0909	0.2845	0.0506	0.3351		4,888.0144	4,888.0144	0.3487		4,896.7311
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0740	0.0500	0.5521	1.6100e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		160.5547	160.5547	4.6000e-003		160.6699
Total	**0.5381**	**16.4227**	**4.0147**	**0.0468**	**1.2056**	**0.0542**	**1.2598**	**0.3289**	**0.0518**	**0.3807**		**5,048.5691**	**5,048.5691**	**0.3533**		**5,057.4009**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2551	20.6494	17.9678	0.0288		1.1948	1.1948		1.1218	1.1218		2,735.6999	2,735.6999	0.6819		2,752.7481
Total	**2.2551**	**20.6494**	**17.9678**	**0.0288**		**1.1948**	**1.1948**		**1.1218**	**1.1218**		**2,735.6999**	**2,735.6999**	**0.6819**		**2,752.7481**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2064	6.2896	1.6715	0.0150	0.3840	0.0317	0.4157	0.1106	0.0303	0.1408		1,599.0768	1,599.0768	0.1110		1,601.8528
Worker	0.7550	0.5095	5.6317	0.0164	1.7102	0.0130	1.7232	0.4536	0.0120	0.4655		1,637.6584	1,637.6584	0.0470		1,638.8325
Total	**0.9614**	**6.7991**	**7.3033**	**0.0314**	**2.0942**	**0.0446**	**2.1388**	**0.5641**	**0.0422**	**0.6063**		**3,236.7352**	**3,236.7352**	**0.1580**		**3,240.6853**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2551	20.6494	17.9678	0.0288		1.1948	1.1948		1.1218	1.1218	0.0000	2,735.6999	2,735.6999	0.6819		2,752.7481
Total	**2.2551**	**20.6494**	**17.9678**	**0.0288**		**1.1948**	**1.1948**		**1.1218**	**1.1218**	**0.0000**	**2,735.6999**	**2,735.6999**	**0.6819**		**2,752.7481**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2064	6.2896	1.6715	0.0150	0.3840	0.0317	0.4157	0.1106	0.0303	0.1408		1,599.0768	1,599.0768	0.1110		1,601.8528
Worker	0.7550	0.5095	5.6317	0.0164	1.7102	0.0130	1.7232	0.4536	0.0120	0.4655		1,637.6584	1,637.6584	0.0470		1,638.8325
Total	**0.9614**	**6.7991**	**7.3033**	**0.0314**	**2.0942**	**0.0446**	**2.1388**	**0.5641**	**0.0422**	**0.6063**		**3,236.7352**	**3,236.7352**	**0.1580**		**3,240.6853**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625		2,736.0438	2,736.0438	0.6751		2,752.9212
Total	**2.0228**	**18.7492**	**17.6706**	**0.0288**		**1.0251**	**1.0251**		**0.9625**	**0.9625**		**2,736.0438**	**2,736.0438**	**0.6751**		**2,752.9212**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1757	5.7044	1.5196	0.0149	0.3840	0.0119	0.3959	0.1106	0.0114	0.1219		1,587.3012	1,587.3012	0.1062		1,589.9562
Worker	0.7056	0.4585	5.1797	0.0159	1.7102	0.0126	1.7228	0.4536	0.0116	0.4651		1,584.5719	1,584.5719	0.0425		1,585.6335
Total	**0.8814**	**6.1629**	**6.6993**	**0.0308**	**2.0942**	**0.0245**	**2.1187**	**0.5641**	**0.0230**	**0.5871**		**3,171.8730**	**3,171.8730**	**0.1487**		**3,175.5897**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625	0.0000	2,736.0438	2,736.0438	0.6751		2,752.9212
Total	**2.0228**	**18.7492**	**17.6706**	**0.0288**		**1.0251**	**1.0251**		**0.9625**	**0.9625**	**0.0000**	**2,736.0438**	**2,736.0438**	**0.6751**		**2,752.9212**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1757	5.7044	1.5196	0.0149	0.3840	0.0119	0.3959	0.1106	0.0114	0.1219		1,587.3012	1,587.3012	0.1062		1,589.9562
Worker	0.7056	0.4585	5.1797	0.0159	1.7102	0.0126	1.7228	0.4536	0.0116	0.4651		1,584.5719	1,584.5719	0.0425		1,585.6335
Total	**0.8814**	**6.1629**	**6.6993**	**0.0308**	**2.0942**	**0.0245**	**2.1187**	**0.5641**	**0.0230**	**0.5871**		**3,171.8730**	**3,171.8730**	**0.1487**		**3,175.5897**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7376**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	**0.0692**	**0.0450**	**0.5078**	**1.5600e-003**	**0.1677**	**1.2300e-003**	**0.1689**	**0.0445**	**1.1400e-003**	**0.0456**		**155.3502**	**155.3502**	**4.1600e-003**		**155.4543**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7376**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	**0.0692**	**0.0450**	**0.5078**	**1.5600e-003**	**0.1677**	**1.2300e-003**	**0.1689**	**0.0445**	**1.1400e-003**	**0.0456**		**155.3502**	**155.3502**	**4.1600e-003**		**155.4543**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	19.6421					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255		375.2641	375.2641	0.0258		375.9079
Total	**19.9340**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**		**375.2641**	**375.2641**	**0.0258**		**375.9079**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1430	0.0929	1.0495	3.2200e-003	0.3465	2.5500e-003	0.3491	0.0919	2.3500e-003	0.0942		321.0570	321.0570	8.6000e-003		321.2722
Total	**0.1430**	**0.0929**	**1.0495**	**3.2200e-003**	**0.3465**	**2.5500e-003**	**0.3491**	**0.0919**	**2.3500e-003**	**0.0942**		**321.0570**	**321.0570**	**8.6000e-003**		**321.2722**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	19.6421					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255	0.0000	375.2641	375.2641	0.0258		375.9079
Total	**19.9340**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**	**0.0000**	**375.2641**	**375.2641**	**0.0258**		**375.9079**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1430	0.0929	1.0495	3.2200e-003	0.3465	2.5500e-003	0.3491	0.0919	2.3500e-003	0.0942		321.0570	321.0570	8.6000e-003		321.2722
Total	**0.1430**	**0.0929**	**1.0495**	**3.2200e-003**	**0.3465**	**2.5500e-003**	**0.3491**	**0.0919**	**2.3500e-003**	**0.0942**		**321.0570**	**321.0570**	**8.6000e-003**		**321.2722**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Non-Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Unmitigated	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8400e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**		**0.1424**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8400e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**		**0.1424**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.2:

CALEEMOD OPERATIONS (PASSENGER CARS) EMISSIONS MODEL OUTPUTS

Pioneer Boulevard Development (Operations - Passenger Cars)

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	163.52	1000sqft	3.75	163,518.00	0
Other Asphalt Surfaces	136.53	1000sqft	3.13	136,533.00	0
Other Non-Asphalt Surfaces	39.09	1000sqft	0.90	39,093.00	0
Parking Lot	271.00	Space	0.55	24,137.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area is roughly 8.34 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on in ITE 10th Edition and Trip Generation Memo provided by Project Applicant.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix broken down between LDA, LDT1, LDT2, and MDV vehicles.

Energy Use - The project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses due to lighting upgrades.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	3.10	2.17
tblEnergyUse	T24E	2.25	1.58
tblEnergyUse	T24NG	13.65	9.56
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.55	0.60
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.20	0.22
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.8510e-003	0.00
tblFleetMix	MCY	4.8170e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.2500e-004	0.00

tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.0700e-003	0.00
tblFleetMix	SBUS	7.0700e-004	0.00
tblFleetMix	UBUS	1.8770e-003	0.00
tblLandUse	LandUseSquareFeet	108,400.00	24,137.00
tblLandUse	LotAcreage	2.44	0.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.69	6.18
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.90	7.9880e-003
tblVehicleEF	HHD	4,950.31	1,194.39
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.19	6.50
tblVehicleEF	HHD	3.79	3.84
tblVehicleEF	HHD	0.02	9.3830e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	8.9770e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.67	0.48
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.79	0.55
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	HHD	0.71	0.03
tblVehicleEF	HHD	0.09	0.08

tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.96	6.03
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.75	7.5840e-003
tblVehicleEF	HHD	5,242.63	1,192.05
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.90	6.33
tblVehicleEF	HHD	3.59	3.63
tblVehicleEF	HHD	0.01	8.7460e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	8.3670e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
tblVehicleEF	HHD	0.64	0.50
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.07	2.0000e-006
tblVehicleEF	HHD	0.05	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3600e-004	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
tblVehicleEF	HHD	0.74	0.57
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.81	0.02
tblVehicleEF	HHD	0.09	4.9680e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.70	6.30
tblVehicleEF	HHD	0.97	0.46
tblVehicleEF	HHD	2.92	8.0430e-003
tblVehicleEF	HHD	4,546.63	1,180.14
tblVehicleEF	HHD	1,610.72	1,429.60
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	21.21	6.63
tblVehicleEF	HHD	3.74	3.74
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	9.5750e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8180e-003	8.7430e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.73	0.45
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.85	0.51
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.12
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	LDA	5.2110e-003	3.1430e-003
tblVehicleEF	LDA	5.8420e-003	0.05
tblVehicleEF	LDA	0.65	0.74
tblVehicleEF	LDA	1.21	2.15
tblVehicleEF	LDA	275.32	274.11
tblVehicleEF	LDA	58.96	54.77
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDA	2.7580e-003	2.7120e-003
tblVehicleEF	LDA	6.1000e-004	5.4200e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	5.5820e-003	3.3870e-003
tblVehicleEF	LDA	5.1760e-003	0.05
tblVehicleEF	LDA	0.73	0.83
tblVehicleEF	LDA	1.04	1.84
tblVehicleEF	LDA	290.06	288.26
tblVehicleEF	LDA	58.96	54.19
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003

tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.9060e-003	2.8520e-003
tblVehicleEF	LDA	6.0700e-004	5.3600e-004
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	5.0990e-003	3.0730e-003
tblVehicleEF	LDA	5.9770e-003	0.05
tblVehicleEF	LDA	0.63	0.71
tblVehicleEF	LDA	1.25	2.21
tblVehicleEF	LDA	270.53	269.50
tblVehicleEF	LDA	58.96	54.89
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003

tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.7100e-003	2.6660e-003
tblVehicleEF	LDA	6.1100e-004	5.4300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDT1	0.01	8.2650e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.65	1.56
tblVehicleEF	LDT1	3.08	2.36
tblVehicleEF	LDT1	339.89	323.15
tblVehicleEF	LDT1	71.61	65.44
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22

tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	3.4200e-003	3.1980e-003
tblVehicleEF	LDT1	7.7000e-004	6.4800e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	0.02	8.8400e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.81	1.73
tblVehicleEF	LDT1	2.63	2.02
tblVehicleEF	LDT1	356.82	337.51
tblVehicleEF	LDT1	71.61	64.74
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT1	3.5920e-003	3.3400e-003
tblVehicleEF	LDT1	7.6200e-004	6.4100e-004
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.01	8.0950e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.59	1.51
tblVehicleEF	LDT1	3.17	2.44
tblVehicleEF	LDT1	334.24	318.34
tblVehicleEF	LDT1	71.61	65.58
tblVehicleEF	LDT1	0.15	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	3.3630e-003	3.1500e-003
tblVehicleEF	LDT1	7.7200e-004	6.4900e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	7.0440e-003	5.0890e-003
tblVehicleEF	LDT2	7.1880e-003	0.07
tblVehicleEF	LDT2	0.84	1.06
tblVehicleEF	LDT2	1.49	2.74
tblVehicleEF	LDT2	382.63	349.24
tblVehicleEF	LDT2	81.02	71.19
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.8330e-003	3.4550e-003
tblVehicleEF	LDT2	8.3500e-004	7.0500e-004

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	7.5350e-003	5.4660e-003
tblVehicleEF	LDT2	6.3730e-003	0.06
tblVehicleEF	LDT2	0.94	1.18
tblVehicleEF	LDT2	1.28	2.34
tblVehicleEF	LDT2	402.38	363.41
tblVehicleEF	LDT2	81.02	70.44
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	4.0320e-003	3.5950e-003
tblVehicleEF	LDT2	8.3200e-004	6.9700e-004
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LDT2	6.8940e-003	4.9780e-003
tblVehicleEF	LDT2	7.3550e-003	0.07
tblVehicleEF	LDT2	0.81	1.02
tblVehicleEF	LDT2	1.53	2.82
tblVehicleEF	LDT2	376.06	344.49
tblVehicleEF	LDT2	81.02	71.35
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LDT2	3.7670e-003	3.4080e-003
tblVehicleEF	LDT2	8.3600e-004	7.0600e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.8640e-003	5.6690e-003
tblVehicleEF	LHD1	0.01	6.0180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.71
tblVehicleEF	LHD1	2.81	1.13
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.37
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.31	0.90
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.55

tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2200e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6820e-003
tblVehicleEF	LHD1	0.01	6.1380e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.92	0.72
tblVehicleEF	LHD1	2.68	1.08
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.71
tblVehicleEF	LHD1	33.50	12.28
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.23	0.84
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004

tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0030e-003	6.5590e-003
tblVehicleEF	LHD1	3.8500e-004	1.2200e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6670e-003
tblVehicleEF	LHD1	0.01	5.9900e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.70
tblVehicleEF	LHD1	2.82	1.14
tblVehicleEF	LHD1	9.00	9.05

tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.38
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.28	0.88
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2300e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.09	0.07

tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	4.2390e-003	4.0130e-003
tblVehicleEF	LHD2	4.8300e-003	4.2070e-003
tblVehicleEF	LHD2	9.6290e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.43	0.76
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.60
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.93	1.09
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.35

tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0220e-003
tblVehicleEF	LHD2	4.8960e-003	4.2550e-003
tblVehicleEF	LHD2	9.2930e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.37	0.73
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.95
tblVehicleEF	LHD2	28.08	9.54
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.88	1.03
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003

tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0600e-004	9.4000e-005
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0110e-003
tblVehicleEF	LHD2	4.8130e-003	4.1960e-003
tblVehicleEF	LHD2	9.6860e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.40	0.48
tblVehicleEF	LHD2	1.44	0.77
tblVehicleEF	LHD2	13.72	13.73

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tblVehicleEF	LHD2	0.92	1.07
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.06	0.06

tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	MCY	0.50	0.37
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.08	19.33
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	182.36	218.96
tblVehicleEF	MCY	45.23	60.14
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
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tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.49	2.50
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.2100e-003	2.1670e-003
tblVehicleEF	MCY	6.7000e-004	5.9500e-004
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	3.08	3.10
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.24	1.99

tblVehicleEF	MCY	0.49	0.36
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.59	18.81
tblVehicleEF	MCY	8.86	7.79
tblVehicleEF	MCY	182.36	217.93
tblVehicleEF	MCY	45.23	58.33
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.2010e-003	2.1570e-003
tblVehicleEF	MCY	6.5100e-004	5.7700e-004
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	3.02	3.03
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.51	0.37
tblVehicleEF	MCY	0.15	0.24

tblVehicleEF	MCY	19.10	19.35
tblVehicleEF	MCY	9.72	8.59
tblVehicleEF	MCY	182.36	219.02
tblVehicleEF	MCY	45.23	60.39
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	2.49	2.51
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	2.2110e-003	2.1670e-003
tblVehicleEF	MCY	6.7300e-004	5.9800e-004
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	3.09	3.11
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	7.0560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.48	1.33
tblVehicleEF	MDV	2.84	3.27

tblVehicleEF	MDV	515.44	429.05
tblVehicleEF	MDV	107.59	87.05
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.22	0.44
tblVehicleEF	MDV	5.1660e-003	4.2420e-003
tblVehicleEF	MDV	1.1260e-003	8.6100e-004
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.01	7.5220e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.63	1.46
tblVehicleEF	MDV	2.45	2.79
tblVehicleEF	MDV	541.84	444.43
tblVehicleEF	MDV	107.59	86.14

tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.39
tblVehicleEF	MDV	5.4320e-003	4.3940e-003
tblVehicleEF	MDV	1.1190e-003	8.5200e-004
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.43
tblVehicleEF	MDV	0.01	6.9160e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.43	1.28
tblVehicleEF	MDV	2.92	3.36
tblVehicleEF	MDV	506.79	424.01
tblVehicleEF	MDV	107.59	87.24
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	2.1880e-003	2.0180e-003

tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.23	0.45
tblVehicleEF	MDV	5.0790e-003	4.1920e-003
tblVehicleEF	MDV	1.1270e-003	8.6300e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MH	0.03	3.3440e-003
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tblVehicleEF	MH	2.61	0.31
tblVehicleEF	MH	6.11	0.00
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tblVehicleEF	MH	1.32	3.91
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
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tblVehicleEF	MH	0.10	0.07
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tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
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tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.10	0.07
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tblVehicleEF	MH	0.08	0.00
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tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3440e-003
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tblVehicleEF	MH	2.59	0.31
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tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
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tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
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tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
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tblVehicleEF	MH	0.14	0.08
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tblVehicleEF	MHD	0.37	0.38
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tblVehicleEF	MHD	3.4700e-004	1.7400e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.3390e-003	6.3300e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2800e-004	1.1400e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
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tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.43	0.07
tblVehicleEF	MHD	0.02	4.0190e-003
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tblVehicleEF	MHD	0.05	0.01

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tblVehicleEF	MHD	0.37	0.63
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tblVehicleEF	MHD	147.32	67.79
tblVehicleEF	MHD	1,139.95	1,077.14
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tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	2.9300e-004	1.4690e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	MHD	1.4170e-003	6.4400e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2200e-004	1.1300e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03

tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.42	0.06
tblVehicleEF	MHD	0.02	4.5650e-003
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tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	0.37	0.62
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tblVehicleEF	MHD	0.53	0.54
tblVehicleEF	MHD	1.16	2.19
tblVehicleEF	MHD	4.4200e-004	2.2090e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	4.2300e-004	2.1140e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.14

tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.2320e-003	6.1600e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2900e-004	1.1400e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.44	0.07
tblVehicleEF	OBUS	0.01	8.8890e-003
tblVehicleEF	OBUS	8.7600e-003	9.7060e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.58
tblVehicleEF	OBUS	0.59	1.02
tblVehicleEF	OBUS	5.80	2.47
tblVehicleEF	OBUS	101.23	91.74
tblVehicleEF	OBUS	1,241.90	1,424.87
tblVehicleEF	OBUS	68.87	19.84
tblVehicleEF	OBUS	0.52	0.58
tblVehicleEF	OBUS	1.61	2.00
tblVehicleEF	OBUS	1.8000e-004	2.2610e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.7300e-004	2.1630e-003
tblVehicleEF	OBUS	7.8190e-003	0.04

tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	9.7800e-004	8.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9100e-004	1.9600e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9090e-003
tblVehicleEF	OBUS	8.9130e-003	9.8460e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.55
tblVehicleEF	OBUS	0.60	1.04
tblVehicleEF	OBUS	5.48	2.33
tblVehicleEF	OBUS	106.24	92.40
tblVehicleEF	OBUS	1,241.90	1,424.90
tblVehicleEF	OBUS	68.87	19.61

tblVehicleEF	OBUS	0.53	0.58
tblVehicleEF	OBUS	1.52	1.88
tblVehicleEF	OBUS	1.5200e-004	1.9110e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.4600e-004	1.8280e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.25
tblVehicleEF	OBUS	0.35	0.11
tblVehicleEF	OBUS	1.0260e-003	8.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8500e-004	1.9400e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.25
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.8830e-003
tblVehicleEF	OBUS	8.7200e-003	9.6690e-003

tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.30	0.62
tblVehicleEF	OBUS	0.59	1.02
tblVehicleEF	OBUS	5.86	2.50
tblVehicleEF	OBUS	94.31	90.82
tblVehicleEF	OBUS	1,241.90	1,424.86
tblVehicleEF	OBUS	68.87	19.88
tblVehicleEF	OBUS	0.49	0.58
tblVehicleEF	OBUS	1.59	1.97
tblVehicleEF	OBUS	2.2000e-004	2.7450e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	2.1000e-004	2.6260e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5900e-003	2.0390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.12
tblVehicleEF	OBUS	9.1200e-004	8.6400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9700e-004
tblVehicleEF	OBUS	1.5900e-003	2.0390e-003
tblVehicleEF	OBUS	0.02	0.02

tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.3270e-003
tblVehicleEF	SBUS	0.07	6.6490e-003
tblVehicleEF	SBUS	7.86	2.82
tblVehicleEF	SBUS	0.81	0.72
tblVehicleEF	SBUS	7.55	0.92
tblVehicleEF	SBUS	1,146.60	356.21
tblVehicleEF	SBUS	1,098.65	1,119.95
tblVehicleEF	SBUS	52.57	5.57
tblVehicleEF	SBUS	10.06	3.44
tblVehicleEF	SBUS	4.64	5.26
tblVehicleEF	SBUS	0.01	4.7700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	4.5640e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	3.6480e-003	1.0930e-003
tblVehicleEF	SBUS	0.03	8.9370e-003
tblVehicleEF	SBUS	0.94	0.33

tblVehicleEF	SBUS	1.8170e-003	5.4700e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.01	3.3990e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5600e-004	5.5000e-005
tblVehicleEF	SBUS	3.6480e-003	1.0930e-003
tblVehicleEF	SBUS	0.03	8.9370e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	1.8170e-003	5.4700e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.44	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.4260e-003
tblVehicleEF	SBUS	0.06	5.8400e-003
tblVehicleEF	SBUS	7.73	2.78
tblVehicleEF	SBUS	0.82	0.73
tblVehicleEF	SBUS	6.01	0.73
tblVehicleEF	SBUS	1,199.32	365.47
tblVehicleEF	SBUS	1,098.65	1,119.97
tblVehicleEF	SBUS	52.57	5.25
tblVehicleEF	SBUS	10.38	3.52
tblVehicleEF	SBUS	4.37	4.95
tblVehicleEF	SBUS	9.1580e-003	4.0280e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	8.7620e-003	3.8540e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	0.94	0.33
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.35	0.03
tblVehicleEF	SBUS	0.01	3.4870e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3100e-004	5.2000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.3040e-003
tblVehicleEF	SBUS	0.07	6.8160e-003
tblVehicleEF	SBUS	8.03	2.88

tblVehicleEF	SBUS	0.81	0.72
tblVehicleEF	SBUS	7.81	0.95
tblVehicleEF	SBUS	1,073.80	343.43
tblVehicleEF	SBUS	1,098.65	1,119.94
tblVehicleEF	SBUS	52.57	5.62
tblVehicleEF	SBUS	9.61	3.32
tblVehicleEF	SBUS	4.57	5.17
tblVehicleEF	SBUS	0.01	5.7950e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	5.5450e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
tblVehicleEF	SBUS	0.03	9.5230e-003
tblVehicleEF	SBUS	0.95	0.33
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.2780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6100e-004	5.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
tblVehicleEF	SBUS	0.03	9.5230e-003

tblVehicleEF	SBUS	1.37	0.47
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.45	0.04
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.01	39.42
tblVehicleEF	UBUS	10.46	0.95
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.70
tblVehicleEF	UBUS	9.09	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.79	0.06
tblVehicleEF	UBUS	9.6900e-003	2.3330e-003

tblVehicleEF	UBUS	1.2560e-003	1.1600e-004
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.87	0.07
tblVehicleEF	UBUS	2.52	5.87
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.06	39.42
tblVehicleEF	UBUS	9.07	0.83
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.50
tblVehicleEF	UBUS	8.56	1.21
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	0.81	0.09
tblVehicleEF	UBUS	0.02	0.07

tblVehicleEF	UBUS	0.73	0.06
tblVehicleEF	UBUS	9.6910e-003	2.3330e-003
tblVehicleEF	UBUS	1.2320e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	3.42	5.99
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.00	39.42
tblVehicleEF	UBUS	10.67	0.97
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.73
tblVehicleEF	UBUS	8.92	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004

tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	9.6890e-003	2.3330e-003
tblVehicleEF	UBUS	1.2600e-003	1.1600e-004
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.88	0.07
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	1.99
tblVehicleTrips	SU_TR	0.68	5.00
tblVehicleTrips	WD_TR	6.97	3.90

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Energy	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Mobile	1.7285	1.5883	27.0229	0.0765	8.0424	0.0466	8.0890	2.1320	0.0429	2.1749		7,735.6242	7,735.6242	0.1879		7,740.3228
Offroad	0.1367	1.5461	0.7740	3.1700e-003		0.0522	0.0522		0.0480	0.0480		307.0801	307.0801	0.0993		309.5630
Total	**5.6776**	**3.7501**	**28.3761**	**0.0834**	**8.0424**	**0.1458**	**8.1882**	**2.1320**	**0.1379**	**2.2699**		**8,780.9747**	**8,780.9747**	**0.3018**	**0.0135**	**8,792.5514**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Energy	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Mobile	1.7285	1.5883	27.0229	0.0765	8.0424	0.0466	8.0890	2.1320	0.0429	2.1749		7,735.6242	7,735.6242	0.1879		7,740.3228
Offroad	0.1367	1.5461	0.7740	3.1700e-003		0.0522	0.0522		0.0480	0.0480		307.0801	307.0801	0.0993		309.5630
Total	**5.6776**	**3.7501**	**28.3761**	**0.0834**	**8.0424**	**0.1458**	**8.1882**	**2.1320**	**0.1379**	**2.2699**		**8,780.9747**	**8,780.9747**	**0.3018**	**0.0135**	**8,792.5514**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.58

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7285	1.5883	27.0229	0.0765	8.0424	0.0466	8.0890	2.1320	0.0429	2.1749		7,735.6242	7,735.6242	0.1879		7,740.3228
Unmitigated	1.7285	1.5883	27.0229	0.0765	8.0424	0.0466	8.0890	2.1320	0.0429	2.1749		7,735.6242	7,735.6242	0.1879		7,740.3228

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	637.72	325.40	817.59	3,739,030	3,739,030
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	637.72	325.40	817.59	3,739,030	3,739,030

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.601100	0.047300	0.219800	0.131800	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Non-Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
NaturalGas Unmitigated	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6274.16	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0677**	**0.6151**	**0.5167**	**3.6900e-003**		**0.0468**	**0.0468**		**0.0468**	**0.0468**		**738.1369**	**738.1369**	**0.0142**	**0.0135**	**742.5232**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6.27416	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0677**	**0.6151**	**0.5167**	**3.6900e-003**		**0.0468**	**0.0468**		**0.0468**	**0.0468**		**738.1369**	**738.1369**	**0.0142**	**0.0135**	**742.5232**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Unmitigated	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8400e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**		**0.1424**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8400e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**		**0.1424**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/ Backhoes	0.1367	1.5461	0.7740	3.1700e-003		0.0522	0.0522		0.0480	0.0480		307.0801	307.0801	0.0993		309.5630
Total	**0.1367**	**1.5461**	**0.7740**	**3.1700e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**307.0801**	**307.0801**	**0.0993**		**309.5630**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Pioneer Boulevard Development (Operations - Passenger Cars)

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	163.52	1000sqft	3.75	163,518.00	0
Other Asphalt Surfaces	136.53	1000sqft	3.13	136,533.00	0
Other Non-Asphalt Surfaces	39.09	1000sqft	0.90	39,093.00	0
Parking Lot	271.00	Space	0.55	24,137.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Pioneer Boulevard Development (Operations - Passenger Cars) - South Coast AQMD Air District, Winter

Project Characteristics -

Land Use - Total Project Area is roughly 8.34 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on in ITE 10th Edition and Trip Generation Memo provided by Project Applicant.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix broken down between LDA, LDT1, LDT2, and MDV vehicles.

Energy Use - The project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses due to lighting upgrades.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	3.10	2.17
tblEnergyUse	T24E	2.25	1.58
tblEnergyUse	T24NG	13.65	9.56
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.55	0.60
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.20	0.22
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.8510e-003	0.00
tblFleetMix	MCY	4.8170e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.2500e-004	0.00

tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.0700e-003	0.00
tblFleetMix	SBUS	7.0700e-004	0.00
tblFleetMix	UBUS	1.8770e-003	0.00
tblLandUse	LandUseSquareFeet	108,400.00	24,137.00
tblLandUse	LotAcreage	2.44	0.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.69	6.18
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.90	7.9880e-003
tblVehicleEF	HHD	4,950.31	1,194.39
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.19	6.50
tblVehicleEF	HHD	3.79	3.84
tblVehicleEF	HHD	0.02	9.3830e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	8.9770e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.67	0.48
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.79	0.55
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	HHD	0.71	0.03
tblVehicleEF	HHD	0.09	0.08

tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.96	6.03
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.75	7.5840e-003
tblVehicleEF	HHD	5,242.63	1,192.05
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.90	6.33
tblVehicleEF	HHD	3.59	3.63
tblVehicleEF	HHD	0.01	8.7460e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	8.3670e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
tblVehicleEF	HHD	0.64	0.50
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.07	2.0000e-006
tblVehicleEF	HHD	0.05	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3600e-004	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
tblVehicleEF	HHD	0.74	0.57
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.81	0.02
tblVehicleEF	HHD	0.09	4.9680e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.70	6.30
tblVehicleEF	HHD	0.97	0.46
tblVehicleEF	HHD	2.92	8.0430e-003
tblVehicleEF	HHD	4,546.63	1,180.14
tblVehicleEF	HHD	1,610.72	1,429.60
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	21.21	6.63
tblVehicleEF	HHD	3.74	3.74
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	9.5750e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8180e-003	8.7430e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.73	0.45
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.85	0.51
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.12
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	LDA	5.2110e-003	3.1430e-003
tblVehicleEF	LDA	5.8420e-003	0.05
tblVehicleEF	LDA	0.65	0.74
tblVehicleEF	LDA	1.21	2.15
tblVehicleEF	LDA	275.32	274.11
tblVehicleEF	LDA	58.96	54.77
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDA	2.7580e-003	2.7120e-003
tblVehicleEF	LDA	6.1000e-004	5.4200e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	5.5820e-003	3.3870e-003
tblVehicleEF	LDA	5.1760e-003	0.05
tblVehicleEF	LDA	0.73	0.83
tblVehicleEF	LDA	1.04	1.84
tblVehicleEF	LDA	290.06	288.26
tblVehicleEF	LDA	58.96	54.19
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003

tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.9060e-003	2.8520e-003
tblVehicleEF	LDA	6.0700e-004	5.3600e-004
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	5.0990e-003	3.0730e-003
tblVehicleEF	LDA	5.9770e-003	0.05
tblVehicleEF	LDA	0.63	0.71
tblVehicleEF	LDA	1.25	2.21
tblVehicleEF	LDA	270.53	269.50
tblVehicleEF	LDA	58.96	54.89
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003

tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.7100e-003	2.6660e-003
tblVehicleEF	LDA	6.1100e-004	5.4300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDT1	0.01	8.2650e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.65	1.56
tblVehicleEF	LDT1	3.08	2.36
tblVehicleEF	LDT1	339.89	323.15
tblVehicleEF	LDT1	71.61	65.44
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22

tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	3.4200e-003	3.1980e-003
tblVehicleEF	LDT1	7.7000e-004	6.4800e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	0.02	8.8400e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.81	1.73
tblVehicleEF	LDT1	2.63	2.02
tblVehicleEF	LDT1	356.82	337.51
tblVehicleEF	LDT1	71.61	64.74
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT1	3.5920e-003	3.3400e-003
tblVehicleEF	LDT1	7.6200e-004	6.4100e-004
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.01	8.0950e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.59	1.51
tblVehicleEF	LDT1	3.17	2.44
tblVehicleEF	LDT1	334.24	318.34
tblVehicleEF	LDT1	71.61	65.58
tblVehicleEF	LDT1	0.15	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	3.3630e-003	3.1500e-003
tblVehicleEF	LDT1	7.7200e-004	6.4900e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	7.0440e-003	5.0890e-003
tblVehicleEF	LDT2	7.1880e-003	0.07
tblVehicleEF	LDT2	0.84	1.06
tblVehicleEF	LDT2	1.49	2.74
tblVehicleEF	LDT2	382.63	349.24
tblVehicleEF	LDT2	81.02	71.19
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.8330e-003	3.4550e-003
tblVehicleEF	LDT2	8.3500e-004	7.0500e-004

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	7.5350e-003	5.4660e-003
tblVehicleEF	LDT2	6.3730e-003	0.06
tblVehicleEF	LDT2	0.94	1.18
tblVehicleEF	LDT2	1.28	2.34
tblVehicleEF	LDT2	402.38	363.41
tblVehicleEF	LDT2	81.02	70.44
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	4.0320e-003	3.5950e-003
tblVehicleEF	LDT2	8.3200e-004	6.9700e-004
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LDT2	6.8940e-003	4.9780e-003
tblVehicleEF	LDT2	7.3550e-003	0.07
tblVehicleEF	LDT2	0.81	1.02
tblVehicleEF	LDT2	1.53	2.82
tblVehicleEF	LDT2	376.06	344.49
tblVehicleEF	LDT2	81.02	71.35
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LDT2	3.7670e-003	3.4080e-003
tblVehicleEF	LDT2	8.3600e-004	7.0600e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.8640e-003	5.6690e-003
tblVehicleEF	LHD1	0.01	6.0180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.71
tblVehicleEF	LHD1	2.81	1.13
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.37
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.31	0.90
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.55

tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2200e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6820e-003
tblVehicleEF	LHD1	0.01	6.1380e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.92	0.72
tblVehicleEF	LHD1	2.68	1.08
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.71
tblVehicleEF	LHD1	33.50	12.28
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.23	0.84
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004

tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0030e-003	6.5590e-003
tblVehicleEF	LHD1	3.8500e-004	1.2200e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6670e-003
tblVehicleEF	LHD1	0.01	5.9900e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.70
tblVehicleEF	LHD1	2.82	1.14
tblVehicleEF	LHD1	9.00	9.05

tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.38
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.28	0.88
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2300e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.09	0.07

tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	4.2390e-003	4.0130e-003
tblVehicleEF	LHD2	4.8300e-003	4.2070e-003
tblVehicleEF	LHD2	9.6290e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.43	0.76
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.60
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.93	1.09
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.35

tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0220e-003
tblVehicleEF	LHD2	4.8960e-003	4.2550e-003
tblVehicleEF	LHD2	9.2930e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.37	0.73
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.95
tblVehicleEF	LHD2	28.08	9.54
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tblVehicleEF	LHD2	0.88	1.03
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003

tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
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tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0600e-004	9.4000e-005
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
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tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0110e-003
tblVehicleEF	LHD2	4.8130e-003	4.1960e-003
tblVehicleEF	LHD2	9.6860e-003	0.01
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tblVehicleEF	LHD2	0.40	0.48
tblVehicleEF	LHD2	1.44	0.77
tblVehicleEF	LHD2	13.72	13.73

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tblVehicleEF	LHD2	0.92	1.07
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
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tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.06	0.06

tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	MCY	0.50	0.37
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.08	19.33
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	182.36	218.96
tblVehicleEF	MCY	45.23	60.14
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.49	2.50
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.2100e-003	2.1670e-003
tblVehicleEF	MCY	6.7000e-004	5.9500e-004
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	3.08	3.10
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.24	1.99

tblVehicleEF	MCY	0.49	0.36
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.59	18.81
tblVehicleEF	MCY	8.86	7.79
tblVehicleEF	MCY	182.36	217.93
tblVehicleEF	MCY	45.23	58.33
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.2010e-003	2.1570e-003
tblVehicleEF	MCY	6.5100e-004	5.7700e-004
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	3.02	3.03
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.51	0.37
tblVehicleEF	MCY	0.15	0.24

tblVehicleEF	MCY	19.10	19.35
tblVehicleEF	MCY	9.72	8.59
tblVehicleEF	MCY	182.36	219.02
tblVehicleEF	MCY	45.23	60.39
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	2.49	2.51
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	2.2110e-003	2.1670e-003
tblVehicleEF	MCY	6.7300e-004	5.9800e-004
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	3.09	3.11
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	7.0560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.48	1.33
tblVehicleEF	MDV	2.84	3.27

tblVehicleEF	MDV	515.44	429.05
tblVehicleEF	MDV	107.59	87.05
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.22	0.44
tblVehicleEF	MDV	5.1660e-003	4.2420e-003
tblVehicleEF	MDV	1.1260e-003	8.6100e-004
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.01	7.5220e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.63	1.46
tblVehicleEF	MDV	2.45	2.79
tblVehicleEF	MDV	541.84	444.43
tblVehicleEF	MDV	107.59	86.14

tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.39
tblVehicleEF	MDV	5.4320e-003	4.3940e-003
tblVehicleEF	MDV	1.1190e-003	8.5200e-004
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.43
tblVehicleEF	MDV	0.01	6.9160e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.43	1.28
tblVehicleEF	MDV	2.92	3.36
tblVehicleEF	MDV	506.79	424.01
tblVehicleEF	MDV	107.59	87.24
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	2.1880e-003	2.0180e-003

tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.23	0.45
tblVehicleEF	MDV	5.0790e-003	4.1920e-003
tblVehicleEF	MDV	1.1270e-003	8.6300e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MH	0.03	3.3440e-003
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tblVehicleEF	MH	6.11	0.00
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tblVehicleEF	MH	1.32	3.91
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
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tblVehicleEF	MH	0.14	0.08
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tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	9.1980e-003
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tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3440e-003
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tblVehicleEF	MH	2.59	0.31
tblVehicleEF	MH	6.16	0.00
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tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.30	3.84
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0300e-004	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
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tblVehicleEF	MHD	4.8740e-003	6.7470e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.37	0.38
tblVehicleEF	MHD	0.37	0.62
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tblVehicleEF	MHD	1,139.95	1,077.13
tblVehicleEF	MHD	61.46	11.49
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tblVehicleEF	MHD	3.6300e-004	1.8180e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	3.4700e-004	1.7400e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.3390e-003	6.3300e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2800e-004	1.1400e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.43	0.07
tblVehicleEF	MHD	0.02	4.0190e-003
tblVehicleEF	MHD	4.9460e-003	6.7970e-003
tblVehicleEF	MHD	0.05	0.01

tblVehicleEF	MHD	0.27	0.31
tblVehicleEF	MHD	0.37	0.63
tblVehicleEF	MHD	6.12	1.27
tblVehicleEF	MHD	147.32	67.79
tblVehicleEF	MHD	1,139.95	1,077.14
tblVehicleEF	MHD	61.46	11.37
tblVehicleEF	MHD	0.57	0.55
tblVehicleEF	MHD	1.11	2.10
tblVehicleEF	MHD	3.0600e-004	1.5350e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	2.9300e-004	1.4690e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	MHD	1.4170e-003	6.4400e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2200e-004	1.1300e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03

tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.42	0.06
tblVehicleEF	MHD	0.02	4.5650e-003
tblVehicleEF	MHD	4.8520e-003	6.7310e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.50	1.35
tblVehicleEF	MHD	127.72	64.87
tblVehicleEF	MHD	1,139.95	1,077.13
tblVehicleEF	MHD	61.46	11.51
tblVehicleEF	MHD	0.53	0.54
tblVehicleEF	MHD	1.16	2.19
tblVehicleEF	MHD	4.4200e-004	2.2090e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	4.2300e-004	2.1140e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.14

tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.2320e-003	6.1600e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2900e-004	1.1400e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.44	0.07
tblVehicleEF	OBUS	0.01	8.8890e-003
tblVehicleEF	OBUS	8.7600e-003	9.7060e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.58
tblVehicleEF	OBUS	0.59	1.02
tblVehicleEF	OBUS	5.80	2.47
tblVehicleEF	OBUS	101.23	91.74
tblVehicleEF	OBUS	1,241.90	1,424.87
tblVehicleEF	OBUS	68.87	19.84
tblVehicleEF	OBUS	0.52	0.58
tblVehicleEF	OBUS	1.61	2.00
tblVehicleEF	OBUS	1.8000e-004	2.2610e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.7300e-004	2.1630e-003
tblVehicleEF	OBUS	7.8190e-003	0.04

tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	9.7800e-004	8.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9100e-004	1.9600e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9090e-003
tblVehicleEF	OBUS	8.9130e-003	9.8460e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.55
tblVehicleEF	OBUS	0.60	1.04
tblVehicleEF	OBUS	5.48	2.33
tblVehicleEF	OBUS	106.24	92.40
tblVehicleEF	OBUS	1,241.90	1,424.90
tblVehicleEF	OBUS	68.87	19.61

tblVehicleEF	OBUS	0.53	0.58
tblVehicleEF	OBUS	1.52	1.88
tblVehicleEF	OBUS	1.5200e-004	1.9110e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.4600e-004	1.8280e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.25
tblVehicleEF	OBUS	0.35	0.11
tblVehicleEF	OBUS	1.0260e-003	8.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8500e-004	1.9400e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.25
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.8830e-003
tblVehicleEF	OBUS	8.7200e-003	9.6690e-003

tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.30	0.62
tblVehicleEF	OBUS	0.59	1.02
tblVehicleEF	OBUS	5.86	2.50
tblVehicleEF	OBUS	94.31	90.82
tblVehicleEF	OBUS	1,241.90	1,424.86
tblVehicleEF	OBUS	68.87	19.88
tblVehicleEF	OBUS	0.49	0.58
tblVehicleEF	OBUS	1.59	1.97
tblVehicleEF	OBUS	2.2000e-004	2.7450e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	2.1000e-004	2.6260e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5900e-003	2.0390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.12
tblVehicleEF	OBUS	9.1200e-004	8.6400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9700e-004
tblVehicleEF	OBUS	1.5900e-003	2.0390e-003
tblVehicleEF	OBUS	0.02	0.02

tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.3270e-003
tblVehicleEF	SBUS	0.07	6.6490e-003
tblVehicleEF	SBUS	7.86	2.82
tblVehicleEF	SBUS	0.81	0.72
tblVehicleEF	SBUS	7.55	0.92
tblVehicleEF	SBUS	1,146.60	356.21
tblVehicleEF	SBUS	1,098.65	1,119.95
tblVehicleEF	SBUS	52.57	5.57
tblVehicleEF	SBUS	10.06	3.44
tblVehicleEF	SBUS	4.64	5.26
tblVehicleEF	SBUS	0.01	4.7700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	4.5640e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	3.6480e-003	1.0930e-003
tblVehicleEF	SBUS	0.03	8.9370e-003
tblVehicleEF	SBUS	0.94	0.33

tblVehicleEF	SBUS	1.8170e-003	5.4700e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.01	3.3990e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5600e-004	5.5000e-005
tblVehicleEF	SBUS	3.6480e-003	1.0930e-003
tblVehicleEF	SBUS	0.03	8.9370e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	1.8170e-003	5.4700e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.44	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.4260e-003
tblVehicleEF	SBUS	0.06	5.8400e-003
tblVehicleEF	SBUS	7.73	2.78
tblVehicleEF	SBUS	0.82	0.73
tblVehicleEF	SBUS	6.01	0.73
tblVehicleEF	SBUS	1,199.32	365.47
tblVehicleEF	SBUS	1,098.65	1,119.97
tblVehicleEF	SBUS	52.57	5.25
tblVehicleEF	SBUS	10.38	3.52
tblVehicleEF	SBUS	4.37	4.95
tblVehicleEF	SBUS	9.1580e-003	4.0280e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	8.7620e-003	3.8540e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	0.94	0.33
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.35	0.03
tblVehicleEF	SBUS	0.01	3.4870e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3100e-004	5.2000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.3040e-003
tblVehicleEF	SBUS	0.07	6.8160e-003
tblVehicleEF	SBUS	8.03	2.88

tblVehicleEF	SBUS	0.81	0.72
tblVehicleEF	SBUS	7.81	0.95
tblVehicleEF	SBUS	1,073.80	343.43
tblVehicleEF	SBUS	1,098.65	1,119.94
tblVehicleEF	SBUS	52.57	5.62
tblVehicleEF	SBUS	9.61	3.32
tblVehicleEF	SBUS	4.57	5.17
tblVehicleEF	SBUS	0.01	5.7950e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	5.5450e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
tblVehicleEF	SBUS	0.03	9.5230e-003
tblVehicleEF	SBUS	0.95	0.33
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.2780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6100e-004	5.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
tblVehicleEF	SBUS	0.03	9.5230e-003

tblVehicleEF	SBUS	1.37	0.47
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.45	0.04
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.01	39.42
tblVehicleEF	UBUS	10.46	0.95
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.70
tblVehicleEF	UBUS	9.09	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.79	0.06
tblVehicleEF	UBUS	9.6900e-003	2.3330e-003

tblVehicleEF	UBUS	1.2560e-003	1.1600e-004
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.87	0.07
tblVehicleEF	UBUS	2.52	5.87
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.06	39.42
tblVehicleEF	UBUS	9.07	0.83
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.50
tblVehicleEF	UBUS	8.56	1.21
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	0.81	0.09
tblVehicleEF	UBUS	0.02	0.07

tblVehicleEF	UBUS	0.73	0.06
tblVehicleEF	UBUS	9.6910e-003	2.3330e-003
tblVehicleEF	UBUS	1.2320e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	3.42	5.99
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.00	39.42
tblVehicleEF	UBUS	10.67	0.97
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.73
tblVehicleEF	UBUS	8.92	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004

tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	9.6890e-003	2.3330e-003
tblVehicleEF	UBUS	1.2600e-003	1.1600e-004
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.88	0.07
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	1.99
tblVehicleTrips	SU_TR	0.68	5.00
tblVehicleTrips	WD_TR	6.97	3.90

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Energy	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Mobile	1.7276	1.7356	24.3959	0.0721	8.0424	0.0466	8.0890	2.1320	0.0429	2.1749		7,292.5692	7,292.5692	0.1896		7,297.3081
Offroad	0.1367	1.5461	0.7740	3.1700e-003		0.0522	0.0522		0.0480	0.0480		307.0801	307.0801	0.0993		309.5630
Total	**5.6767**	**3.8974**	**25.7492**	**0.0790**	**8.0424**	**0.1458**	**8.1882**	**2.1320**	**0.1379**	**2.2699**		**8,337.9197**	**8,337.9197**	**0.3034**	**0.0135**	**8,349.5367**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Energy	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Mobile	1.7276	1.7356	24.3959	0.0721	8.0424	0.0466	8.0890	2.1320	0.0429	2.1749		7,292.5692	7,292.5692	0.1896		7,297.3081
Offroad	0.1367	1.5461	0.7740	3.1700e-003		0.0522	0.0522		0.0480	0.0480		307.0801	307.0801	0.0993		309.5630
Total	**5.6767**	**3.8974**	**25.7492**	**0.0790**	**8.0424**	**0.1458**	**8.1882**	**2.1320**	**0.1379**	**2.2699**		**8,337.9197**	**8,337.9197**	**0.3034**	**0.0135**	**8,349.5367**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.58

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7276	1.7356	24.3959	0.0721	8.0424	0.0466	8.0890	2.1320	0.0429	2.1749		7,292.5692	7,292.5692	0.1896		7,297.3081
Unmitigated	1.7276	1.7356	24.3959	0.0721	8.0424	0.0466	8.0890	2.1320	0.0429	2.1749		7,292.5692	7,292.5692	0.1896		7,297.3081

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	637.72	325.40	817.59	3,739,030	3,739,030
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	637.72	325.40	817.59	3,739,030	3,739,030

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.601100	0.047300	0.219800	0.131800	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Non-Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
NaturalGas Unmitigated	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6274.16	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0677**	**0.6151**	**0.5167**	**3.6900e-003**		**0.0468**	**0.0468**		**0.0468**	**0.0468**		**738.1369**	**738.1369**	**0.0142**	**0.0135**	**742.5232**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6.27416	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0677**	**0.6151**	**0.5167**	**3.6900e-003**		**0.0468**	**0.0468**		**0.0468**	**0.0468**		**738.1369**	**738.1369**	**0.0142**	**0.0135**	**742.5232**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Unmitigated	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8400e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**		**0.1424**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8400e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**		**0.1424**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/ Backhoes	0.1367	1.5461	0.7740	3.1700e-003		0.0522	0.0522		0.0480	0.0480		307.0801	307.0801	0.0993		309.5630
Total	**0.1367**	**1.5461**	**0.7740**	**3.1700e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**307.0801**	**307.0801**	**0.0993**		**309.5630**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.3:

CALEEMOD OPERATIONS (TRUCKS) EMISSIONS MODEL OUTPUTS

Pioneer Boulevard Development (Operations - Trucks)

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	163.52	1000sqft	3.75	163,518.00	0
Other Asphalt Surfaces	136.53	1000sqft	3.13	136,533.00	0
Other Non-Asphalt Surfaces	39.09	1000sqft	0.90	39,093.00	0
Parking Lot	271.00	Space	0.55	24,137.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area is roughly 8.34 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on in ITE 10th Edition and Trip Generation Memo provided by Project Applicant.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix broken down between LHD1, MHDT, and HHDT vehicles.

Energy Use - The project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses due to lighting upgrades.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	3.10	2.17
tblEnergyUse	T24E	2.25	1.58
tblEnergyUse	T24NG	13.65	9.56
tblFleetMix	HHD	0.03	0.44
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LHD1	0.02	0.37
tblFleetMix	LHD2	5.8510e-003	0.00
tblFleetMix	MCY	4.8170e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.2500e-004	0.00

tblFleetMix	MHD	0.02	0.18
tblFleetMix	OBUS	2.0700e-003	0.00
tblFleetMix	SBUS	7.0700e-004	0.00
tblFleetMix	UBUS	1.8770e-003	0.00
tblLandUse	LandUseSquareFeet	108,400.00	24,137.00
tblLandUse	LotAcreage	2.44	0.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.69	6.18
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.90	7.9880e-003
tblVehicleEF	HHD	4,950.31	1,194.39
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.19	6.50
tblVehicleEF	HHD	3.79	3.84
tblVehicleEF	HHD	0.02	9.3830e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	8.9770e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.67	0.48
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.79	0.55
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	HHD	0.71	0.03
tblVehicleEF	HHD	0.09	0.08

tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.96	6.03
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.75	7.5840e-003
tblVehicleEF	HHD	5,242.63	1,192.05
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.90	6.33
tblVehicleEF	HHD	3.59	3.63
tblVehicleEF	HHD	0.01	8.7460e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	8.3670e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
tblVehicleEF	HHD	0.64	0.50
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.07	2.0000e-006
tblVehicleEF	HHD	0.05	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3600e-004	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
tblVehicleEF	HHD	0.74	0.57
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.81	0.02
tblVehicleEF	HHD	0.09	4.9680e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.70	6.30
tblVehicleEF	HHD	0.97	0.46
tblVehicleEF	HHD	2.92	8.0430e-003
tblVehicleEF	HHD	4,546.63	1,180.14
tblVehicleEF	HHD	1,610.72	1,429.60
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	21.21	6.63
tblVehicleEF	HHD	3.74	3.74
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	9.5750e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8180e-003	8.7430e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.73	0.45
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.85	0.51
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.12
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	LDA	5.2110e-003	3.1430e-003
tblVehicleEF	LDA	5.8420e-003	0.05
tblVehicleEF	LDA	0.65	0.74
tblVehicleEF	LDA	1.21	2.15
tblVehicleEF	LDA	275.32	274.11
tblVehicleEF	LDA	58.96	54.77
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDA	2.7580e-003	2.7120e-003
tblVehicleEF	LDA	6.1000e-004	5.4200e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	5.5820e-003	3.3870e-003
tblVehicleEF	LDA	5.1760e-003	0.05
tblVehicleEF	LDA	0.73	0.83
tblVehicleEF	LDA	1.04	1.84
tblVehicleEF	LDA	290.06	288.26
tblVehicleEF	LDA	58.96	54.19
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003

tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.9060e-003	2.8520e-003
tblVehicleEF	LDA	6.0700e-004	5.3600e-004
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	5.0990e-003	3.0730e-003
tblVehicleEF	LDA	5.9770e-003	0.05
tblVehicleEF	LDA	0.63	0.71
tblVehicleEF	LDA	1.25	2.21
tblVehicleEF	LDA	270.53	269.50
tblVehicleEF	LDA	58.96	54.89
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003

tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.7100e-003	2.6660e-003
tblVehicleEF	LDA	6.1100e-004	5.4300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDT1	0.01	8.2650e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.65	1.56
tblVehicleEF	LDT1	3.08	2.36
tblVehicleEF	LDT1	339.89	323.15
tblVehicleEF	LDT1	71.61	65.44
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22

tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	3.4200e-003	3.1980e-003
tblVehicleEF	LDT1	7.7000e-004	6.4800e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	0.02	8.8400e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.81	1.73
tblVehicleEF	LDT1	2.63	2.02
tblVehicleEF	LDT1	356.82	337.51
tblVehicleEF	LDT1	71.61	64.74
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT1	3.5920e-003	3.3400e-003
tblVehicleEF	LDT1	7.6200e-004	6.4100e-004
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.01	8.0950e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.59	1.51
tblVehicleEF	LDT1	3.17	2.44
tblVehicleEF	LDT1	334.24	318.34
tblVehicleEF	LDT1	71.61	65.58
tblVehicleEF	LDT1	0.15	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	3.3630e-003	3.1500e-003
tblVehicleEF	LDT1	7.7200e-004	6.4900e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	7.0440e-003	5.0890e-003
tblVehicleEF	LDT2	7.1880e-003	0.07
tblVehicleEF	LDT2	0.84	1.06
tblVehicleEF	LDT2	1.49	2.74
tblVehicleEF	LDT2	382.63	349.24
tblVehicleEF	LDT2	81.02	71.19
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.8330e-003	3.4550e-003
tblVehicleEF	LDT2	8.3500e-004	7.0500e-004

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	7.5350e-003	5.4660e-003
tblVehicleEF	LDT2	6.3730e-003	0.06
tblVehicleEF	LDT2	0.94	1.18
tblVehicleEF	LDT2	1.28	2.34
tblVehicleEF	LDT2	402.38	363.41
tblVehicleEF	LDT2	81.02	70.44
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	4.0320e-003	3.5950e-003
tblVehicleEF	LDT2	8.3200e-004	6.9700e-004
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LDT2	6.8940e-003	4.9780e-003
tblVehicleEF	LDT2	7.3550e-003	0.07
tblVehicleEF	LDT2	0.81	1.02
tblVehicleEF	LDT2	1.53	2.82
tblVehicleEF	LDT2	376.06	344.49
tblVehicleEF	LDT2	81.02	71.35
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LDT2	3.7670e-003	3.4080e-003
tblVehicleEF	LDT2	8.3600e-004	7.0600e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.8640e-003	5.6690e-003
tblVehicleEF	LHD1	0.01	6.0180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.71
tblVehicleEF	LHD1	2.81	1.13
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.37
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.31	0.90
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.55

tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2200e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6820e-003
tblVehicleEF	LHD1	0.01	6.1380e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.92	0.72
tblVehicleEF	LHD1	2.68	1.08
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.71
tblVehicleEF	LHD1	33.50	12.28
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.23	0.84
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004

tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0030e-003	6.5590e-003
tblVehicleEF	LHD1	3.8500e-004	1.2200e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6670e-003
tblVehicleEF	LHD1	0.01	5.9900e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.70
tblVehicleEF	LHD1	2.82	1.14
tblVehicleEF	LHD1	9.00	9.05

tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.38
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.28	0.88
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2300e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.09	0.07

tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	4.2390e-003	4.0130e-003
tblVehicleEF	LHD2	4.8300e-003	4.2070e-003
tblVehicleEF	LHD2	9.6290e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.43	0.76
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.60
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.93	1.09
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.35

tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0220e-003
tblVehicleEF	LHD2	4.8960e-003	4.2550e-003
tblVehicleEF	LHD2	9.2930e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.37	0.73
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.95
tblVehicleEF	LHD2	28.08	9.54
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.88	1.03
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003

tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
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tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0600e-004	9.4000e-005
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0110e-003
tblVehicleEF	LHD2	4.8130e-003	4.1960e-003
tblVehicleEF	LHD2	9.6860e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.40	0.48
tblVehicleEF	LHD2	1.44	0.77
tblVehicleEF	LHD2	13.72	13.73

tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.61
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.92	1.07
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.06	0.06

tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	MCY	0.50	0.37
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.08	19.33
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	182.36	218.96
tblVehicleEF	MCY	45.23	60.14
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.49	2.50
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.2100e-003	2.1670e-003
tblVehicleEF	MCY	6.7000e-004	5.9500e-004
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	3.08	3.10
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.24	1.99

tblVehicleEF	MCY	0.49	0.36
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.59	18.81
tblVehicleEF	MCY	8.86	7.79
tblVehicleEF	MCY	182.36	217.93
tblVehicleEF	MCY	45.23	58.33
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.2010e-003	2.1570e-003
tblVehicleEF	MCY	6.5100e-004	5.7700e-004
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	3.02	3.03
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.51	0.37
tblVehicleEF	MCY	0.15	0.24

tblVehicleEF	MCY	19.10	19.35
tblVehicleEF	MCY	9.72	8.59
tblVehicleEF	MCY	182.36	219.02
tblVehicleEF	MCY	45.23	60.39
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	2.49	2.51
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	2.2110e-003	2.1670e-003
tblVehicleEF	MCY	6.7300e-004	5.9800e-004
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	3.09	3.11
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	7.0560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.48	1.33
tblVehicleEF	MDV	2.84	3.27

tblVehicleEF	MDV	515.44	429.05
tblVehicleEF	MDV	107.59	87.05
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
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tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.22	0.44
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tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.01	7.5220e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.63	1.46
tblVehicleEF	MDV	2.45	2.79
tblVehicleEF	MDV	541.84	444.43
tblVehicleEF	MDV	107.59	86.14

tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.39
tblVehicleEF	MDV	5.4320e-003	4.3940e-003
tblVehicleEF	MDV	1.1190e-003	8.5200e-004
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.43
tblVehicleEF	MDV	0.01	6.9160e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.43	1.28
tblVehicleEF	MDV	2.92	3.36
tblVehicleEF	MDV	506.79	424.01
tblVehicleEF	MDV	107.59	87.24
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	2.1880e-003	2.0180e-003

tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.23	0.45
tblVehicleEF	MDV	5.0790e-003	4.1920e-003
tblVehicleEF	MDV	1.1270e-003	8.6300e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MH	0.03	3.3440e-003
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tblVehicleEF	MH	6.11	0.00
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tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.32	3.91
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0200e-004	0.00
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tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.03	3.3440e-003
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tblVehicleEF	MH	1.22	3.69
tblVehicleEF	MH	0.01	0.02
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tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	6.9500e-004	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.59	0.31
tblVehicleEF	MH	6.16	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.30	3.84
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0300e-004	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MHD	0.02	4.2430e-003
tblVehicleEF	MHD	4.8740e-003	6.7470e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.37	0.38
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.44	1.34
tblVehicleEF	MHD	139.10	66.57
tblVehicleEF	MHD	1,139.95	1,077.13
tblVehicleEF	MHD	61.46	11.49
tblVehicleEF	MHD	0.55	0.55

tblVehicleEF	MHD	1.18	2.23
tblVehicleEF	MHD	3.6300e-004	1.8180e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	3.4700e-004	1.7400e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.3390e-003	6.3300e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2800e-004	1.1400e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.43	0.07
tblVehicleEF	MHD	0.02	4.0190e-003
tblVehicleEF	MHD	4.9460e-003	6.7970e-003
tblVehicleEF	MHD	0.05	0.01

tblVehicleEF	MHD	0.27	0.31
tblVehicleEF	MHD	0.37	0.63
tblVehicleEF	MHD	6.12	1.27
tblVehicleEF	MHD	147.32	67.79
tblVehicleEF	MHD	1,139.95	1,077.14
tblVehicleEF	MHD	61.46	11.37
tblVehicleEF	MHD	0.57	0.55
tblVehicleEF	MHD	1.11	2.10
tblVehicleEF	MHD	3.0600e-004	1.5350e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	2.9300e-004	1.4690e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	MHD	1.4170e-003	6.4400e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2200e-004	1.1300e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03

tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.42	0.06
tblVehicleEF	MHD	0.02	4.5650e-003
tblVehicleEF	MHD	4.8520e-003	6.7310e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.50	1.35
tblVehicleEF	MHD	127.72	64.87
tblVehicleEF	MHD	1,139.95	1,077.13
tblVehicleEF	MHD	61.46	11.51
tblVehicleEF	MHD	0.53	0.54
tblVehicleEF	MHD	1.16	2.19
tblVehicleEF	MHD	4.4200e-004	2.2090e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	4.2300e-004	2.1140e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.14

tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.2320e-003	6.1600e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2900e-004	1.1400e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.44	0.07
tblVehicleEF	OBUS	0.01	8.8890e-003
tblVehicleEF	OBUS	8.7600e-003	9.7060e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.58
tblVehicleEF	OBUS	0.59	1.02
tblVehicleEF	OBUS	5.80	2.47
tblVehicleEF	OBUS	101.23	91.74
tblVehicleEF	OBUS	1,241.90	1,424.87
tblVehicleEF	OBUS	68.87	19.84
tblVehicleEF	OBUS	0.52	0.58
tblVehicleEF	OBUS	1.61	2.00
tblVehicleEF	OBUS	1.8000e-004	2.2610e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.7300e-004	2.1630e-003
tblVehicleEF	OBUS	7.8190e-003	0.04

tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	9.7800e-004	8.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9100e-004	1.9600e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9090e-003
tblVehicleEF	OBUS	8.9130e-003	9.8460e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.55
tblVehicleEF	OBUS	0.60	1.04
tblVehicleEF	OBUS	5.48	2.33
tblVehicleEF	OBUS	106.24	92.40
tblVehicleEF	OBUS	1,241.90	1,424.90
tblVehicleEF	OBUS	68.87	19.61

tblVehicleEF	OBUS	0.53	0.58
tblVehicleEF	OBUS	1.52	1.88
tblVehicleEF	OBUS	1.5200e-004	1.9110e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.4600e-004	1.8280e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.25
tblVehicleEF	OBUS	0.35	0.11
tblVehicleEF	OBUS	1.0260e-003	8.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8500e-004	1.9400e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.25
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.8830e-003
tblVehicleEF	OBUS	8.7200e-003	9.6690e-003

tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.30	0.62
tblVehicleEF	OBUS	0.59	1.02
tblVehicleEF	OBUS	5.86	2.50
tblVehicleEF	OBUS	94.31	90.82
tblVehicleEF	OBUS	1,241.90	1,424.86
tblVehicleEF	OBUS	68.87	19.88
tblVehicleEF	OBUS	0.49	0.58
tblVehicleEF	OBUS	1.59	1.97
tblVehicleEF	OBUS	2.2000e-004	2.7450e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	2.1000e-004	2.6260e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5900e-003	2.0390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.12
tblVehicleEF	OBUS	9.1200e-004	8.6400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9700e-004
tblVehicleEF	OBUS	1.5900e-003	2.0390e-003
tblVehicleEF	OBUS	0.02	0.02

tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.3270e-003
tblVehicleEF	SBUS	0.07	6.6490e-003
tblVehicleEF	SBUS	7.86	2.82
tblVehicleEF	SBUS	0.81	0.72
tblVehicleEF	SBUS	7.55	0.92
tblVehicleEF	SBUS	1,146.60	356.21
tblVehicleEF	SBUS	1,098.65	1,119.95
tblVehicleEF	SBUS	52.57	5.57
tblVehicleEF	SBUS	10.06	3.44
tblVehicleEF	SBUS	4.64	5.26
tblVehicleEF	SBUS	0.01	4.7700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	4.5640e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	3.6480e-003	1.0930e-003
tblVehicleEF	SBUS	0.03	8.9370e-003
tblVehicleEF	SBUS	0.94	0.33

tblVehicleEF	SBUS	1.8170e-003	5.4700e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.01	3.3990e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5600e-004	5.5000e-005
tblVehicleEF	SBUS	3.6480e-003	1.0930e-003
tblVehicleEF	SBUS	0.03	8.9370e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	1.8170e-003	5.4700e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.44	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.4260e-003
tblVehicleEF	SBUS	0.06	5.8400e-003
tblVehicleEF	SBUS	7.73	2.78
tblVehicleEF	SBUS	0.82	0.73
tblVehicleEF	SBUS	6.01	0.73
tblVehicleEF	SBUS	1,199.32	365.47
tblVehicleEF	SBUS	1,098.65	1,119.97
tblVehicleEF	SBUS	52.57	5.25
tblVehicleEF	SBUS	10.38	3.52
tblVehicleEF	SBUS	4.37	4.95
tblVehicleEF	SBUS	9.1580e-003	4.0280e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	8.7620e-003	3.8540e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	0.94	0.33
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.35	0.03
tblVehicleEF	SBUS	0.01	3.4870e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3100e-004	5.2000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.3040e-003
tblVehicleEF	SBUS	0.07	6.8160e-003
tblVehicleEF	SBUS	8.03	2.88

tblVehicleEF	SBUS	0.81	0.72
tblVehicleEF	SBUS	7.81	0.95
tblVehicleEF	SBUS	1,073.80	343.43
tblVehicleEF	SBUS	1,098.65	1,119.94
tblVehicleEF	SBUS	52.57	5.62
tblVehicleEF	SBUS	9.61	3.32
tblVehicleEF	SBUS	4.57	5.17
tblVehicleEF	SBUS	0.01	5.7950e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	5.5450e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
tblVehicleEF	SBUS	0.03	9.5230e-003
tblVehicleEF	SBUS	0.95	0.33
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.2780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6100e-004	5.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
tblVehicleEF	SBUS	0.03	9.5230e-003

tblVehicleEF	SBUS	1.37	0.47
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.45	0.04
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.01	39.42
tblVehicleEF	UBUS	10.46	0.95
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.70
tblVehicleEF	UBUS	9.09	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.79	0.06
tblVehicleEF	UBUS	9.6900e-003	2.3330e-003

tblVehicleEF	UBUS	1.2560e-003	1.1600e-004
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.87	0.07
tblVehicleEF	UBUS	2.52	5.87
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.06	39.42
tblVehicleEF	UBUS	9.07	0.83
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.50
tblVehicleEF	UBUS	8.56	1.21
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	0.81	0.09
tblVehicleEF	UBUS	0.02	0.07

tblVehicleEF	UBUS	0.73	0.06
tblVehicleEF	UBUS	9.6910e-003	2.3330e-003
tblVehicleEF	UBUS	1.2320e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	3.42	5.99
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.00	39.42
tblVehicleEF	UBUS	10.67	0.97
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.73
tblVehicleEF	UBUS	8.92	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004

tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	9.6890e-003	2.3330e-003
tblVehicleEF	UBUS	1.2600e-003	1.1600e-004
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.88	0.07
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	1.06
tblVehicleTrips	SU_TR	0.68	1.06
tblVehicleTrips	WD_TR	6.97	1.06

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Energy	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Mobile	1.5785	40.6232	11.5661	0.1597	6.1269	0.5676	6.6946	1.7278	0.5429	2.2707		17,082.9256	17,082.9256	0.6060		17,098.0749
Offroad	0.1367	1.5461	0.7740	3.1700e-003		0.0522	0.0522		0.0480	0.0480		307.0801	307.0801	0.0993		309.5630
Total	**5.5276**	**42.7850**	**12.9194**	**0.1666**	**6.1269**	**0.6668**	**6.7938**	**1.7278**	**0.6379**	**2.3657**		**18,128.2761**	**18,128.2761**	**0.7198**	**0.0135**	**18,150.3036**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Energy	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Mobile	1.5785	40.6232	11.5661	0.1597	6.1269	0.5676	6.6946	1.7278	0.5429	2.2707		17,082.9256	17,082.9256	0.6060		17,098.0749
Offroad	0.1367	1.5461	0.7740	3.1700e-003		0.0522	0.0522		0.0480	0.0480		307.0801	307.0801	0.0993		309.5630
Total	**5.5276**	**42.7850**	**12.9194**	**0.1666**	**6.1269**	**0.6668**	**6.7938**	**1.7278**	**0.6379**	**2.3657**		**18,128.2761**	**18,128.2761**	**0.7198**	**0.0135**	**18,150.3036**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.58

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5785	40.6232	11.5661	0.1597	6.1269	0.5676	6.6946	1.7278	0.5429	2.2707		17,082.9256	17,082.9256	0.6060		17,098.0749
Unmitigated	1.5785	40.6232	11.5661	0.1597	6.1269	0.5676	6.6946	1.7278	0.5429	2.2707		17,082.9256	17,082.9256	0.6060		17,098.0749

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	173.33	173.33	173.33	2,523,671	2,523,671
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	173.33	173.33	173.33	2,523,671	2,523,671

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.000000	0.000000	0.000000	0.000000	0.373600	0.000000	0.183900	0.442500	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Non-Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
NaturalGas Unmitigated	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6274.16	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0677**	**0.6151**	**0.5167**	**3.6900e-003**		**0.0468**	**0.0468**		**0.0468**	**0.0468**		**738.1369**	**738.1369**	**0.0142**	**0.0135**	**742.5232**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6.27416	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0677**	**0.6151**	**0.5167**	**3.6900e-003**		**0.0468**	**0.0468**		**0.0468**	**0.0468**		**738.1369**	**738.1369**	**0.0142**	**0.0135**	**742.5232**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Unmitigated	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8400e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**		**0.1424**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8400e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**		**0.1424**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/ Backhoes	0.1367	1.5461	0.7740	3.1700e-003		0.0522	0.0522		0.0480	0.0480		307.0801	307.0801	0.0993		309.5630
Total	**0.1367**	**1.5461**	**0.7740**	**3.1700e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**307.0801**	**307.0801**	**0.0993**		**309.5630**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Pioneer Boulevard Development (Operations - Trucks)

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	163.52	1000sqft	3.75	163,518.00	0
Other Asphalt Surfaces	136.53	1000sqft	3.13	136,533.00	0
Other Non-Asphalt Surfaces	39.09	1000sqft	0.90	39,093.00	0
Parking Lot	271.00	Space	0.55	24,137.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Pioneer Boulevard Development (Operations - Trucks) - South Coast AQMD Air District, Winter

Project Characteristics -

Land Use - Total Project Area is roughly 8.34 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on in ITE 10th Edition and Trip Generation Memo provided by Project Applicant.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix broken down between LHD1, MHDT, and HHDT vehicles.

Energy Use - The project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses due to lighting upgrades.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	3.10	2.17
tblEnergyUse	T24E	2.25	1.58
tblEnergyUse	T24NG	13.65	9.56
tblFleetMix	HHD	0.03	0.44
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LHD1	0.02	0.37
tblFleetMix	LHD2	5.8510e-003	0.00
tblFleetMix	MCY	4.8170e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.2500e-004	0.00

tblFleetMix	MHD	0.02	0.18
tblFleetMix	OBUS	2.0700e-003	0.00
tblFleetMix	SBUS	7.0700e-004	0.00
tblFleetMix	UBUS	1.8770e-003	0.00
tblLandUse	LandUseSquareFeet	108,400.00	24,137.00
tblLandUse	LotAcreage	2.44	0.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.69	6.18
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.90	7.9880e-003
tblVehicleEF	HHD	4,950.31	1,194.39
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.19	6.50
tblVehicleEF	HHD	3.79	3.84
tblVehicleEF	HHD	0.02	9.3830e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	8.9770e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.67	0.48
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.79	0.55
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	HHD	0.71	0.03
tblVehicleEF	HHD	0.09	0.08

tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.96	6.03
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.75	7.5840e-003
tblVehicleEF	HHD	5,242.63	1,192.05
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.90	6.33
tblVehicleEF	HHD	3.59	3.63
tblVehicleEF	HHD	0.01	8.7460e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	8.3670e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
tblVehicleEF	HHD	0.64	0.50
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.07	2.0000e-006
tblVehicleEF	HHD	0.05	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3600e-004	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
tblVehicleEF	HHD	0.74	0.57
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.81	0.02
tblVehicleEF	HHD	0.09	4.9680e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.70	6.30
tblVehicleEF	HHD	0.97	0.46
tblVehicleEF	HHD	2.92	8.0430e-003
tblVehicleEF	HHD	4,546.63	1,180.14
tblVehicleEF	HHD	1,610.72	1,429.60
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	21.21	6.63
tblVehicleEF	HHD	3.74	3.74
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	9.5750e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8180e-003	8.7430e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.73	0.45
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
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tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.85	0.51
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.12
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	LDA	5.2110e-003	3.1430e-003
tblVehicleEF	LDA	5.8420e-003	0.05
tblVehicleEF	LDA	0.65	0.74
tblVehicleEF	LDA	1.21	2.15
tblVehicleEF	LDA	275.32	274.11
tblVehicleEF	LDA	58.96	54.77
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDA	2.7580e-003	2.7120e-003
tblVehicleEF	LDA	6.1000e-004	5.4200e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	5.5820e-003	3.3870e-003
tblVehicleEF	LDA	5.1760e-003	0.05
tblVehicleEF	LDA	0.73	0.83
tblVehicleEF	LDA	1.04	1.84
tblVehicleEF	LDA	290.06	288.26
tblVehicleEF	LDA	58.96	54.19
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003

tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.9060e-003	2.8520e-003
tblVehicleEF	LDA	6.0700e-004	5.3600e-004
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	5.0990e-003	3.0730e-003
tblVehicleEF	LDA	5.9770e-003	0.05
tblVehicleEF	LDA	0.63	0.71
tblVehicleEF	LDA	1.25	2.21
tblVehicleEF	LDA	270.53	269.50
tblVehicleEF	LDA	58.96	54.89
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003

tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.7100e-003	2.6660e-003
tblVehicleEF	LDA	6.1100e-004	5.4300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDT1	0.01	8.2650e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.65	1.56
tblVehicleEF	LDT1	3.08	2.36
tblVehicleEF	LDT1	339.89	323.15
tblVehicleEF	LDT1	71.61	65.44
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22

tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	3.4200e-003	3.1980e-003
tblVehicleEF	LDT1	7.7000e-004	6.4800e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	0.02	8.8400e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.81	1.73
tblVehicleEF	LDT1	2.63	2.02
tblVehicleEF	LDT1	356.82	337.51
tblVehicleEF	LDT1	71.61	64.74
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT1	3.5920e-003	3.3400e-003
tblVehicleEF	LDT1	7.6200e-004	6.4100e-004
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.01	8.0950e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.59	1.51
tblVehicleEF	LDT1	3.17	2.44
tblVehicleEF	LDT1	334.24	318.34
tblVehicleEF	LDT1	71.61	65.58
tblVehicleEF	LDT1	0.15	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	3.3630e-003	3.1500e-003
tblVehicleEF	LDT1	7.7200e-004	6.4900e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	7.0440e-003	5.0890e-003
tblVehicleEF	LDT2	7.1880e-003	0.07
tblVehicleEF	LDT2	0.84	1.06
tblVehicleEF	LDT2	1.49	2.74
tblVehicleEF	LDT2	382.63	349.24
tblVehicleEF	LDT2	81.02	71.19
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.8330e-003	3.4550e-003
tblVehicleEF	LDT2	8.3500e-004	7.0500e-004

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	7.5350e-003	5.4660e-003
tblVehicleEF	LDT2	6.3730e-003	0.06
tblVehicleEF	LDT2	0.94	1.18
tblVehicleEF	LDT2	1.28	2.34
tblVehicleEF	LDT2	402.38	363.41
tblVehicleEF	LDT2	81.02	70.44
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	4.0320e-003	3.5950e-003
tblVehicleEF	LDT2	8.3200e-004	6.9700e-004
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LDT2	6.8940e-003	4.9780e-003
tblVehicleEF	LDT2	7.3550e-003	0.07
tblVehicleEF	LDT2	0.81	1.02
tblVehicleEF	LDT2	1.53	2.82
tblVehicleEF	LDT2	376.06	344.49
tblVehicleEF	LDT2	81.02	71.35
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LDT2	3.7670e-003	3.4080e-003
tblVehicleEF	LDT2	8.3600e-004	7.0600e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.8640e-003	5.6690e-003
tblVehicleEF	LHD1	0.01	6.0180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.71
tblVehicleEF	LHD1	2.81	1.13
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.37
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.31	0.90
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.55

tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2200e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6820e-003
tblVehicleEF	LHD1	0.01	6.1380e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.92	0.72
tblVehicleEF	LHD1	2.68	1.08
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.71
tblVehicleEF	LHD1	33.50	12.28
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.23	0.84
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004

tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0030e-003	6.5590e-003
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tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6670e-003
tblVehicleEF	LHD1	0.01	5.9900e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.70
tblVehicleEF	LHD1	2.82	1.14
tblVehicleEF	LHD1	9.00	9.05

tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.38
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.28	0.88
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
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tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.09	0.07

tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	4.2390e-003	4.0130e-003
tblVehicleEF	LHD2	4.8300e-003	4.2070e-003
tblVehicleEF	LHD2	9.6290e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.43	0.76
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.60
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.93	1.09
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.35

tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0220e-003
tblVehicleEF	LHD2	4.8960e-003	4.2550e-003
tblVehicleEF	LHD2	9.2930e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.37	0.73
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.95
tblVehicleEF	LHD2	28.08	9.54
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.88	1.03
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003

tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0600e-004	9.4000e-005
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0110e-003
tblVehicleEF	LHD2	4.8130e-003	4.1960e-003
tblVehicleEF	LHD2	9.6860e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.40	0.48
tblVehicleEF	LHD2	1.44	0.77
tblVehicleEF	LHD2	13.72	13.73

tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.61
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.92	1.07
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.06	0.06

tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	MCY	0.50	0.37
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.08	19.33
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	182.36	218.96
tblVehicleEF	MCY	45.23	60.14
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.49	2.50
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.2100e-003	2.1670e-003
tblVehicleEF	MCY	6.7000e-004	5.9500e-004
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	3.08	3.10
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.24	1.99

tblVehicleEF	MCY	0.49	0.36
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.59	18.81
tblVehicleEF	MCY	8.86	7.79
tblVehicleEF	MCY	182.36	217.93
tblVehicleEF	MCY	45.23	58.33
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.2010e-003	2.1570e-003
tblVehicleEF	MCY	6.5100e-004	5.7700e-004
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	3.02	3.03
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.51	0.37
tblVehicleEF	MCY	0.15	0.24

tblVehicleEF	MCY	19.10	19.35
tblVehicleEF	MCY	9.72	8.59
tblVehicleEF	MCY	182.36	219.02
tblVehicleEF	MCY	45.23	60.39
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	2.49	2.51
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	2.2110e-003	2.1670e-003
tblVehicleEF	MCY	6.7300e-004	5.9800e-004
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	3.09	3.11
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	7.0560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.48	1.33
tblVehicleEF	MDV	2.84	3.27

tblVehicleEF	MDV	515.44	429.05
tblVehicleEF	MDV	107.59	87.05
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.22	0.44
tblVehicleEF	MDV	5.1660e-003	4.2420e-003
tblVehicleEF	MDV	1.1260e-003	8.6100e-004
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.01	7.5220e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.63	1.46
tblVehicleEF	MDV	2.45	2.79
tblVehicleEF	MDV	541.84	444.43
tblVehicleEF	MDV	107.59	86.14

tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.39
tblVehicleEF	MDV	5.4320e-003	4.3940e-003
tblVehicleEF	MDV	1.1190e-003	8.5200e-004
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.43
tblVehicleEF	MDV	0.01	6.9160e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.43	1.28
tblVehicleEF	MDV	2.92	3.36
tblVehicleEF	MDV	506.79	424.01
tblVehicleEF	MDV	107.59	87.24
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	2.1880e-003	2.0180e-003

tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.23	0.45
tblVehicleEF	MDV	5.0790e-003	4.1920e-003
tblVehicleEF	MDV	1.1270e-003	8.6300e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.61	0.31
tblVehicleEF	MH	6.11	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.32	3.91
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0200e-004	0.00
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tblVehicleEF	MH	0.08	0.00
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tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.69	0.31
tblVehicleEF	MH	5.74	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.22	3.69
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	6.9500e-004	0.00
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tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.59	0.31
tblVehicleEF	MH	6.16	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.30	3.84
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0300e-004	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MHD	0.02	4.2430e-003
tblVehicleEF	MHD	4.8740e-003	6.7470e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.37	0.38
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.44	1.34
tblVehicleEF	MHD	139.10	66.57
tblVehicleEF	MHD	1,139.95	1,077.13
tblVehicleEF	MHD	61.46	11.49
tblVehicleEF	MHD	0.55	0.55

tblVehicleEF	MHD	1.18	2.23
tblVehicleEF	MHD	3.6300e-004	1.8180e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	3.4700e-004	1.7400e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.3390e-003	6.3300e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2800e-004	1.1400e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.43	0.07
tblVehicleEF	MHD	0.02	4.0190e-003
tblVehicleEF	MHD	4.9460e-003	6.7970e-003
tblVehicleEF	MHD	0.05	0.01

tblVehicleEF	MHD	0.27	0.31
tblVehicleEF	MHD	0.37	0.63
tblVehicleEF	MHD	6.12	1.27
tblVehicleEF	MHD	147.32	67.79
tblVehicleEF	MHD	1,139.95	1,077.14
tblVehicleEF	MHD	61.46	11.37
tblVehicleEF	MHD	0.57	0.55
tblVehicleEF	MHD	1.11	2.10
tblVehicleEF	MHD	3.0600e-004	1.5350e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	2.9300e-004	1.4690e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	MHD	1.4170e-003	6.4400e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2200e-004	1.1300e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03

tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.42	0.06
tblVehicleEF	MHD	0.02	4.5650e-003
tblVehicleEF	MHD	4.8520e-003	6.7310e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.50	1.35
tblVehicleEF	MHD	127.72	64.87
tblVehicleEF	MHD	1,139.95	1,077.13
tblVehicleEF	MHD	61.46	11.51
tblVehicleEF	MHD	0.53	0.54
tblVehicleEF	MHD	1.16	2.19
tblVehicleEF	MHD	4.4200e-004	2.2090e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	4.2300e-004	2.1140e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.14

tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.2320e-003	6.1600e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2900e-004	1.1400e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.44	0.07
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tblVehicleEF	OBUS	8.7600e-003	9.7060e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.58
tblVehicleEF	OBUS	0.59	1.02
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tblVehicleEF	OBUS	101.23	91.74
tblVehicleEF	OBUS	1,241.90	1,424.87
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tblVehicleEF	OBUS	1.8000e-004	2.2610e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.7300e-004	2.1630e-003
tblVehicleEF	OBUS	7.8190e-003	0.04

tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	9.7800e-004	8.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9100e-004	1.9600e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9090e-003
tblVehicleEF	OBUS	8.9130e-003	9.8460e-003
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tblVehicleEF	OBUS	0.60	1.04
tblVehicleEF	OBUS	5.48	2.33
tblVehicleEF	OBUS	106.24	92.40
tblVehicleEF	OBUS	1,241.90	1,424.90
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tblVehicleEF	OBUS	1.5200e-004	1.9110e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.4600e-004	1.8280e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.25
tblVehicleEF	OBUS	0.35	0.11
tblVehicleEF	OBUS	1.0260e-003	8.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8500e-004	1.9400e-004
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tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
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tblVehicleEF	OBUS	0.04	0.25
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.8830e-003
tblVehicleEF	OBUS	8.7200e-003	9.6690e-003

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tblVehicleEF	OBUS	94.31	90.82
tblVehicleEF	OBUS	1,241.90	1,424.86
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tblVehicleEF	OBUS	2.2000e-004	2.7450e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	2.1000e-004	2.6260e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
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tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.12
tblVehicleEF	OBUS	9.1200e-004	8.6400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9700e-004
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tblVehicleEF	OBUS	0.06	0.08
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tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	4.5640e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
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tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
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tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
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tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
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tblVehicleEF	UBUS	0.79	0.06
tblVehicleEF	UBUS	9.6900e-003	2.3330e-003

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tblVehicleEF	UBUS	9.07	0.83
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tblVehicleEF	UBUS	0.59	0.07
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tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
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tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
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tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
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tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
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tblVehicleEF	UBUS	0.59	0.07
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tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
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tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
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tblVehicleEF	UBUS	9.6890e-003	2.3330e-003
tblVehicleEF	UBUS	1.2600e-003	1.1600e-004
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.88	0.07
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	1.06
tblVehicleTrips	SU_TR	0.68	1.06
tblVehicleTrips	WD_TR	6.97	1.06

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Energy	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Mobile	1.5391	41.8658	10.2302	0.1597	6.1174	0.5672	6.6846	1.7243	0.5425	2.2669		16,740.6068	16,740.6068	0.0947		16,742.9730
Offroad	0.1367	1.5461	0.7740	3.1700e-003		0.0522	0.0522		0.0480	0.0480		307.0801	307.0801	0.0993		309.5630
Total	**5.4882**	**44.0275**	**11.5834**	**0.1666**	**6.1174**	**0.6664**	**6.7838**	**1.7243**	**0.6375**	**2.3619**		**17,785.9573**	**17,785.9573**	**0.2085**	**0.0135**	**17,795.2016**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Energy	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Mobile	1.5391	41.8658	10.2302	0.1597	6.1174	0.5672	6.6846	1.7243	0.5425	2.2669		16,740.6068	16,740.6068	0.0947		16,742.9730
Offroad	0.1367	1.5461	0.7740	3.1700e-003		0.0522	0.0522		0.0480	0.0480		307.0801	307.0801	0.0993		309.5630
Total	**5.4882**	**44.0275**	**11.5834**	**0.1666**	**6.1174**	**0.6664**	**6.7838**	**1.7243**	**0.6375**	**2.3619**		**17,785.9573**	**17,785.9573**	**0.2085**	**0.0135**	**17,795.2016**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.58

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5391	41.8658	10.2302	0.1597	6.1174	0.5672	6.6846	1.7243	0.5425	2.2669		16,740.6068	16,740.6068	0.0947		16,742.9730
Unmitigated	1.5391	41.8658	10.2302	0.1597	6.1174	0.5672	6.6846	1.7243	0.5425	2.2669		16,740.6068	16,740.6068	0.0947		16,742.9730

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	173.33	173.33	173.33	2,523,671	2,523,671
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	173.33	173.33	173.33	2,523,671	2,523,671

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.000000	0.000000	0.000000	0.000000	0.373600	0.000000	0.183900	0.442500	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Non-Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
NaturalGas Unmitigated	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6274.16	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0677**	**0.6151**	**0.5167**	**3.6900e-003**		**0.0468**	**0.0468**		**0.0468**	**0.0468**		**738.1369**	**738.1369**	**0.0142**	**0.0135**	**742.5232**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6.27416	0.0677	0.6151	0.5167	3.6900e-003		0.0468	0.0468		0.0468	0.0468		738.1369	738.1369	0.0142	0.0135	742.5232
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0677**	**0.6151**	**0.5167**	**3.6900e-003**		**0.0468**	**0.0468**		**0.0468**	**0.0468**		**738.1369**	**738.1369**	**0.0142**	**0.0135**	**742.5232**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Unmitigated	3.7448	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8400e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**		**0.1424**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8400e-003	5.7000e-004	0.0625	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1335	0.1335	3.5000e-004		0.1424
Total	**3.7448**	**5.7000e-004**	**0.0625**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**		**0.1335**	**0.1335**	**3.5000e-004**		**0.1424**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/ Backhoes	0.1367	1.5461	0.7740	3.1700e-003		0.0522	0.0522		0.0480	0.0480		307.0801	307.0801	0.0993		309.5630
Total	**0.1367**	**1.5461**	**0.7740**	**3.1700e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**307.0801**	**307.0801**	**0.0993**		**309.5630**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.4:

CALEEMOD EXISTING DEVELOPMENT OPERATIONS EMISSIONS MODEL OUTPUTS

Pioneer Boulevard Development (Existing Operations)

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.06	1000sqft	0.19	8,064.00	0
Office Park	149.61	1000sqft	3.43	149,605.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on in ITE 10th Edition and Trip Generation Memo provided by Project Applicant.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.69	6.18
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.90	7.9880e-003
tblVehicleEF	HHD	4,950.31	1,194.39
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.19	6.50
tblVehicleEF	HHD	3.79	3.84
tblVehicleEF	HHD	0.02	9.3830e-003

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	8.9770e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.67	0.48
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.79	0.55
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	HHD	0.71	0.03

tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.96	6.03
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.75	7.5840e-003
tblVehicleEF	HHD	5,242.63	1,192.05
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.90	6.33
tblVehicleEF	HHD	3.59	3.63
tblVehicleEF	HHD	0.01	8.7460e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	8.3670e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
tblVehicleEF	HHD	0.64	0.50
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.07	2.0000e-006

tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3600e-004	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
tblVehicleEF	HHD	0.74	0.57
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.81	0.02
tblVehicleEF	HHD	0.09	4.9680e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.70	6.30
tblVehicleEF	HHD	0.97	0.46
tblVehicleEF	HHD	2.92	8.0430e-003
tblVehicleEF	HHD	4,546.63	1,180.14
tblVehicleEF	HHD	1,610.72	1,429.60
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	21.21	6.63
tblVehicleEF	HHD	3.74	3.74
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	9.5750e-003

tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.7430e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.73	0.45
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.85	0.51
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.12
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	LDA	5.2110e-003	3.1430e-003
tblVehicleEF	LDA	5.8420e-003	0.05
tblVehicleEF	LDA	0.65	0.74
tblVehicleEF	LDA	1.21	2.15
tblVehicleEF	LDA	275.32	274.11
tblVehicleEF	LDA	58.96	54.77

tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDA	2.7580e-003	2.7120e-003
tblVehicleEF	LDA	6.1000e-004	5.4200e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	5.5820e-003	3.3870e-003
tblVehicleEF	LDA	5.1760e-003	0.05
tblVehicleEF	LDA	0.73	0.83
tblVehicleEF	LDA	1.04	1.84
tblVehicleEF	LDA	290.06	288.26
tblVehicleEF	LDA	58.96	54.19
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003

tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.9060e-003	2.8520e-003
tblVehicleEF	LDA	6.0700e-004	5.3600e-004
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	5.0990e-003	3.0730e-003
tblVehicleEF	LDA	5.9770e-003	0.05
tblVehicleEF	LDA	0.63	0.71
tblVehicleEF	LDA	1.25	2.21
tblVehicleEF	LDA	270.53	269.50
tblVehicleEF	LDA	58.96	54.89
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003

tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.7100e-003	2.6660e-003
tblVehicleEF	LDA	6.1100e-004	5.4300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDT1	0.01	8.2650e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.65	1.56
tblVehicleEF	LDT1	3.08	2.36
tblVehicleEF	LDT1	339.89	323.15
tblVehicleEF	LDT1	71.61	65.44
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15

tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	3.4200e-003	3.1980e-003
tblVehicleEF	LDT1	7.7000e-004	6.4800e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	0.02	8.8400e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.81	1.73
tblVehicleEF	LDT1	2.63	2.02
tblVehicleEF	LDT1	356.82	337.51
tblVehicleEF	LDT1	71.61	64.74
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18

tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT1	3.5920e-003	3.3400e-003
tblVehicleEF	LDT1	7.6200e-004	6.4100e-004
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.01	8.0950e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.59	1.51
tblVehicleEF	LDT1	3.17	2.44
tblVehicleEF	LDT1	334.24	318.34
tblVehicleEF	LDT1	71.61	65.58
tblVehicleEF	LDT1	0.15	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.90

tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	3.3630e-003	3.1500e-003
tblVehicleEF	LDT1	7.7200e-004	6.4900e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	7.0440e-003	5.0890e-003
tblVehicleEF	LDT2	7.1880e-003	0.07
tblVehicleEF	LDT2	0.84	1.06
tblVehicleEF	LDT2	1.49	2.74
tblVehicleEF	LDT2	382.63	349.24
tblVehicleEF	LDT2	81.02	71.19
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.8330e-003	3.4550e-003

tblVehicleEF	LDT2	8.3500e-004	7.0500e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	7.5350e-003	5.4660e-003
tblVehicleEF	LDT2	6.3730e-003	0.06
tblVehicleEF	LDT2	0.94	1.18
tblVehicleEF	LDT2	1.28	2.34
tblVehicleEF	LDT2	402.38	363.41
tblVehicleEF	LDT2	81.02	70.44
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	4.0320e-003	3.5950e-003
tblVehicleEF	LDT2	8.3200e-004	6.9700e-004
tblVehicleEF	LDT2	0.08	0.13

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LDT2	6.8940e-003	4.9780e-003
tblVehicleEF	LDT2	7.3550e-003	0.07
tblVehicleEF	LDT2	0.81	1.02
tblVehicleEF	LDT2	1.53	2.82
tblVehicleEF	LDT2	376.06	344.49
tblVehicleEF	LDT2	81.02	71.35
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LDT2	3.7670e-003	3.4080e-003
tblVehicleEF	LDT2	8.3600e-004	7.0600e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07

tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.8640e-003	5.6690e-003
tblVehicleEF	LHD1	0.01	6.0180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.71
tblVehicleEF	LHD1	2.81	1.13
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.37
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.31	0.90
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.07	0.05

tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2200e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6820e-003
tblVehicleEF	LHD1	0.01	6.1380e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.92	0.72
tblVehicleEF	LHD1	2.68	1.08
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.71
tblVehicleEF	LHD1	33.50	12.28
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.23	0.84
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004

tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0030e-003	6.5590e-003
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tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6670e-003
tblVehicleEF	LHD1	0.01	5.9900e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.70
tblVehicleEF	LHD1	2.82	1.14

tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.38
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.28	0.88
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2300e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003

tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	4.2390e-003	4.0130e-003
tblVehicleEF	LHD2	4.8300e-003	4.2070e-003
tblVehicleEF	LHD2	9.6290e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.43	0.76
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.60
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.93	1.09
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.05	0.05

tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0220e-003
tblVehicleEF	LHD2	4.8960e-003	4.2550e-003
tblVehicleEF	LHD2	9.2930e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.37	0.73
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.95
tblVehicleEF	LHD2	28.08	9.54
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.88	1.03
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004

tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0600e-004	9.4000e-005
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0110e-003
tblVehicleEF	LHD2	4.8130e-003	4.1960e-003
tblVehicleEF	LHD2	9.6860e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.40	0.48
tblVehicleEF	LHD2	1.44	0.77

tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.61
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.92	1.07
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004

tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	MCY	0.50	0.37
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.08	19.33
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	182.36	218.96
tblVehicleEF	MCY	45.23	60.14
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.49	2.50
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.2100e-003	2.1670e-003
tblVehicleEF	MCY	6.7000e-004	5.9500e-004
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	3.08	3.10
tblVehicleEF	MCY	0.63	2.04

tblVehicleEF	MCY	2.24	1.99
tblVehicleEF	MCY	0.49	0.36
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.59	18.81
tblVehicleEF	MCY	8.86	7.79
tblVehicleEF	MCY	182.36	217.93
tblVehicleEF	MCY	45.23	58.33
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.2010e-003	2.1570e-003
tblVehicleEF	MCY	6.5100e-004	5.7700e-004
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	3.02	3.03
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.51	0.37

tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.10	19.35
tblVehicleEF	MCY	9.72	8.59
tblVehicleEF	MCY	182.36	219.02
tblVehicleEF	MCY	45.23	60.39
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	2.49	2.51
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	2.2110e-003	2.1670e-003
tblVehicleEF	MCY	6.7300e-004	5.9800e-004
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	3.09	3.11
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	7.0560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.48	1.33

tblVehicleEF	MDV	2.84	3.27
tblVehicleEF	MDV	515.44	429.05
tblVehicleEF	MDV	107.59	87.05
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.22	0.44
tblVehicleEF	MDV	5.1660e-003	4.2420e-003
tblVehicleEF	MDV	1.1260e-003	8.6100e-004
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.01	7.5220e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.63	1.46
tblVehicleEF	MDV	2.45	2.79
tblVehicleEF	MDV	541.84	444.43

tblVehicleEF	MDV	107.59	86.14
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.39
tblVehicleEF	MDV	5.4320e-003	4.3940e-003
tblVehicleEF	MDV	1.1190e-003	8.5200e-004
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.43
tblVehicleEF	MDV	0.01	6.9160e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.43	1.28
tblVehicleEF	MDV	2.92	3.36
tblVehicleEF	MDV	506.79	424.01
tblVehicleEF	MDV	107.59	87.24
tblVehicleEF	MDV	0.16	0.12

tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.23	0.45
tblVehicleEF	MDV	5.0790e-003	4.1920e-003
tblVehicleEF	MDV	1.1270e-003	8.6300e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.61	0.31
tblVehicleEF	MH	6.11	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.32	3.91
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10

tblVehicleEF	MH	1.1510e-003	0.00
tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0200e-004	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.69	0.31
tblVehicleEF	MH	5.74	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.22	3.69
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10

tblVehicleEF	MH	1.1510e-003	0.00
tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	6.9500e-004	0.00
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tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.59	0.31
tblVehicleEF	MH	6.16	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.30	3.84
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10

tblVehicleEF	MH	1.1510e-003	0.00
tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0300e-004	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MHD	0.02	4.2430e-003
tblVehicleEF	MHD	4.8740e-003	6.7470e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.37	0.38
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.44	1.34
tblVehicleEF	MHD	139.10	66.57
tblVehicleEF	MHD	1,139.95	1,077.13
tblVehicleEF	MHD	61.46	11.49

tblVehicleEF	MHD	0.55	0.55
tblVehicleEF	MHD	1.18	2.23
tblVehicleEF	MHD	3.6300e-004	1.8180e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	3.4700e-004	1.7400e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.3390e-003	6.3300e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2800e-004	1.1400e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.43	0.07
tblVehicleEF	MHD	0.02	4.0190e-003
tblVehicleEF	MHD	4.9460e-003	6.7970e-003

tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.27	0.31
tblVehicleEF	MHD	0.37	0.63
tblVehicleEF	MHD	6.12	1.27
tblVehicleEF	MHD	147.32	67.79
tblVehicleEF	MHD	1,139.95	1,077.14
tblVehicleEF	MHD	61.46	11.37
tblVehicleEF	MHD	0.57	0.55
tblVehicleEF	MHD	1.11	2.10
tblVehicleEF	MHD	3.0600e-004	1.5350e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	2.9300e-004	1.4690e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	MHD	1.4170e-003	6.4400e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2200e-004	1.1300e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03

tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.42	0.06
tblVehicleEF	MHD	0.02	4.5650e-003
tblVehicleEF	MHD	4.8520e-003	6.7310e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.50	1.35
tblVehicleEF	MHD	127.72	64.87
tblVehicleEF	MHD	1,139.95	1,077.13
tblVehicleEF	MHD	61.46	11.51
tblVehicleEF	MHD	0.53	0.54
tblVehicleEF	MHD	1.16	2.19
tblVehicleEF	MHD	4.4200e-004	2.2090e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	4.2300e-004	2.1140e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.04	0.11

tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.2320e-003	6.1600e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2900e-004	1.1400e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.44	0.07
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tblVehicleEF	OBUS	8.7600e-003	9.7060e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.58
tblVehicleEF	OBUS	0.59	1.02
tblVehicleEF	OBUS	5.80	2.47
tblVehicleEF	OBUS	101.23	91.74
tblVehicleEF	OBUS	1,241.90	1,424.87
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tblVehicleEF	OBUS	0.52	0.58
tblVehicleEF	OBUS	1.61	2.00
tblVehicleEF	OBUS	1.8000e-004	2.2610e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.7300e-004	2.1630e-003

tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	9.7800e-004	8.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9100e-004	1.9600e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9090e-003
tblVehicleEF	OBUS	8.9130e-003	9.8460e-003
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tblVehicleEF	OBUS	106.24	92.40
tblVehicleEF	OBUS	1,241.90	1,424.90

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tblVehicleEF	OBUS	1.5200e-004	1.9110e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.4600e-004	1.8280e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.25
tblVehicleEF	OBUS	0.35	0.11
tblVehicleEF	OBUS	1.0260e-003	8.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8500e-004	1.9400e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
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tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
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tblVehicleEF	OBUS	0.04	0.25
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.8830e-003

tblVehicleEF	OBUS	8.7200e-003	9.6690e-003
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tblVehicleEF	OBUS	0.30	0.62
tblVehicleEF	OBUS	0.59	1.02
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tblVehicleEF	OBUS	94.31	90.82
tblVehicleEF	OBUS	1,241.90	1,424.86
tblVehicleEF	OBUS	68.87	19.88
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tblVehicleEF	OBUS	1.59	1.97
tblVehicleEF	OBUS	2.2000e-004	2.7450e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	2.1000e-004	2.6260e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5900e-003	2.0390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.12
tblVehicleEF	OBUS	9.1200e-004	8.6400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9700e-004
tblVehicleEF	OBUS	1.5900e-003	2.0390e-003

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tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	4.5640e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
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tblVehicleEF	SBUS	3.6480e-003	1.0930e-003
tblVehicleEF	SBUS	0.03	8.9370e-003

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tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.01	3.3990e-003
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tblVehicleEF	SBUS	6.5600e-004	5.5000e-005
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tblVehicleEF	SBUS	9.1580e-003	4.0280e-003

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tblVehicleEF	SBUS	0.03	0.03
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tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
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tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
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tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
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tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
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tblVehicleEF	SBUS	0.02	0.07
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tblVehicleEF	SBUS	0.01	3.2780e-003
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tblVehicleEF	SBUS	3.6250e-003	1.0870e-003

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tblVehicleEF	UBUS	0.59	0.07
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tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
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tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
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tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.79	0.06

tblVehicleEF	UBUS	9.6900e-003	2.3330e-003
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tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
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tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
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tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.87	0.07
tblVehicleEF	UBUS	2.52	5.87
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.06	39.42
tblVehicleEF	UBUS	9.07	0.83
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.50
tblVehicleEF	UBUS	8.56	1.21
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
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tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
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tblVehicleEF	UBUS	0.02	0.07
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tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	2.51	5.87
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tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
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tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
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tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01

tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	9.6890e-003	2.3330e-003
tblVehicleEF	UBUS	1.2600e-003	1.1600e-004
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.88	0.07
tblVehicleTrips	ST_TR	2.46	2.21
tblVehicleTrips	ST_TR	1.64	2.56
tblVehicleTrips	SU_TR	1.05	0.70
tblVehicleTrips	SU_TR	0.76	1.08
tblVehicleTrips	WD_TR	11.03	9.74
tblVehicleTrips	WD_TR	11.42	12.44

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.5238	1.5000e-004	0.0162	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0368
Energy	0.0458	0.4160	0.3494	2.5000e-003		0.0316	0.0316		0.0316	0.0316		499.1391	499.1391	9.5700e-003	9.1500e-003	502.1053
Mobile	5.3393	15.7156	55.3976	0.1559	13.8714	0.2132	14.0846	3.7054	0.2012	3.9066		16,097.3440	16,097.3440	1.0241		16,122.9452
Total	**8.9088**	**16.1317**	**55.7631**	**0.1584**	**13.8714**	**0.2449**	**14.1163**	**3.7054**	**0.2329**	**3.9383**		**16,596.5177**	**16,596.5177**	**1.0337**	**9.1500e-003**	**16,625.0873**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.5238	1.5000e-004	0.0162	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0368
Energy	0.0458	0.4160	0.3494	2.5000e-003		0.0316	0.0316		0.0316	0.0316		499.1391	499.1391	9.5700e-003	9.1500e-003	502.1053
Mobile	5.3393	15.7156	55.3976	0.1559	13.8714	0.2132	14.0846	3.7054	0.2012	3.9066		16,097.3440	16,097.3440	1.0241		16,122.9452
Total	**8.9088**	**16.1317**	**55.7631**	**0.1584**	**13.8714**	**0.2449**	**14.1163**	**3.7054**	**0.2329**	**3.9383**		**16,596.5177**	**16,596.5177**	**1.0337**	**9.1500e-003**	**16,625.0873**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.3393	15.7156	55.3976	0.1559	13.8714	0.2132	14.0846	3.7054	0.2012	3.9066		16,097.3440	16,097.3440	1.0241		16,122.9452
Unmitigated	5.3393	15.7156	55.3976	0.1559	13.8714	0.2132	14.0846	3.7054	0.2012	3.9066		16,097.3440	16,097.3440	1.0241		16,122.9452

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	78.54	17.82	5.64	191,531	191,531
Office Park	1,861.09	382.99	161.57	4,754,241	4,754,241
Total	1,939.63	400.81	167.22	4,945,772	4,945,772

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Office Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0458	0.4160	0.3494	2.5000e-003		0.0316	0.0316		0.0316	0.0316		499.1391	499.1391	9.5700e-003	9.1500e-003	502.1053
NaturalGas Unmitigated	0.0458	0.4160	0.3494	2.5000e-003		0.0316	0.0316		0.0316	0.0316		499.1391	499.1391	9.5700e-003	9.1500e-003	502.1053

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	229.99	2.4800e-003	0.0226	0.0189	1.4000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003		27.0576	27.0576	5.2000e-004	5.0000e-004	27.2184
Office Park	4012.69	0.0433	0.3934	0.3305	2.3600e-003		0.0299	0.0299		0.0299	0.0299		472.0815	472.0815	9.0500e-003	8.6500e-003	474.8869
Total		**0.0458**	**0.4160**	**0.3494**	**2.5000e-003**		**0.0316**	**0.0316**		**0.0316**	**0.0316**		**499.1391**	**499.1391**	**9.5700e-003**	**9.1500e-003**	**502.1053**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.22999	2.4800e-003	0.0226	0.0189	1.4000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003		27.0576	27.0576	5.2000e-004	5.0000e-004	27.2184
Office Park	4.01269	0.0433	0.3934	0.3305	2.3600e-003		0.0299	0.0299		0.0299	0.0299		472.0815	472.0815	9.0500e-003	8.6500e-003	474.8869
Total		**0.0458**	**0.4160**	**0.3494**	**2.5000e-003**		**0.0316**	**0.0316**		**0.0316**	**0.0316**		**499.1391**	**499.1391**	**9.5700e-003**	**9.1500e-003**	**502.1053**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.5238	1.5000e-004	0.0162	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0368
Unmitigated	3.5238	1.5000e-004	0.0162	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0368

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1219					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5100e-003	1.5000e-004	0.0162	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0368
Total	**3.5238**	**1.5000e-004**	**0.0162**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0368**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1219					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5100e-003	1.5000e-004	0.0162	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0368
Total	**3.5238**	**1.5000e-004**	**0.0162**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0368**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Pioneer Boulevard Development (Existing Operations)

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.06	1000sqft	0.19	8,064.00	0
Office Park	149.61	1000sqft	3.43	149,605.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Pioneer Boulevard Development (Existing Operations) - South Coast AQMD Air District, Winter

Project Characteristics -

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on in ITE 10th Edition and Trip Generation Memo provided by Project Applicant.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.69	6.18
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.90	7.9880e-003
tblVehicleEF	HHD	4,950.31	1,194.39
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.19	6.50
tblVehicleEF	HHD	3.79	3.84
tblVehicleEF	HHD	0.02	9.3830e-003

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	8.9770e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.67	0.48
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.79	0.55
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	HHD	0.71	0.03

tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.96	6.03
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.75	7.5840e-003
tblVehicleEF	HHD	5,242.63	1,192.05
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.90	6.33
tblVehicleEF	HHD	3.59	3.63
tblVehicleEF	HHD	0.01	8.7460e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	8.3670e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
tblVehicleEF	HHD	0.64	0.50
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.07	2.0000e-006

tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3600e-004	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
tblVehicleEF	HHD	0.74	0.57
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.81	0.02
tblVehicleEF	HHD	0.09	4.9680e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.70	6.30
tblVehicleEF	HHD	0.97	0.46
tblVehicleEF	HHD	2.92	8.0430e-003
tblVehicleEF	HHD	4,546.63	1,180.14
tblVehicleEF	HHD	1,610.72	1,429.60
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	21.21	6.63
tblVehicleEF	HHD	3.74	3.74
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	9.5750e-003

tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.7430e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.73	0.45
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.85	0.51
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.12
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	LDA	5.2110e-003	3.1430e-003
tblVehicleEF	LDA	5.8420e-003	0.05
tblVehicleEF	LDA	0.65	0.74
tblVehicleEF	LDA	1.21	2.15
tblVehicleEF	LDA	275.32	274.11
tblVehicleEF	LDA	58.96	54.77

tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDA	2.7580e-003	2.7120e-003
tblVehicleEF	LDA	6.1000e-004	5.4200e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	5.5820e-003	3.3870e-003
tblVehicleEF	LDA	5.1760e-003	0.05
tblVehicleEF	LDA	0.73	0.83
tblVehicleEF	LDA	1.04	1.84
tblVehicleEF	LDA	290.06	288.26
tblVehicleEF	LDA	58.96	54.19
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003

tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.9060e-003	2.8520e-003
tblVehicleEF	LDA	6.0700e-004	5.3600e-004
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	5.0990e-003	3.0730e-003
tblVehicleEF	LDA	5.9770e-003	0.05
tblVehicleEF	LDA	0.63	0.71
tblVehicleEF	LDA	1.25	2.21
tblVehicleEF	LDA	270.53	269.50
tblVehicleEF	LDA	58.96	54.89
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003

tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.7100e-003	2.6660e-003
tblVehicleEF	LDA	6.1100e-004	5.4300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDT1	0.01	8.2650e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.65	1.56
tblVehicleEF	LDT1	3.08	2.36
tblVehicleEF	LDT1	339.89	323.15
tblVehicleEF	LDT1	71.61	65.44
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15

tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	3.4200e-003	3.1980e-003
tblVehicleEF	LDT1	7.7000e-004	6.4800e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	0.02	8.8400e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.81	1.73
tblVehicleEF	LDT1	2.63	2.02
tblVehicleEF	LDT1	356.82	337.51
tblVehicleEF	LDT1	71.61	64.74
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18

tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT1	3.5920e-003	3.3400e-003
tblVehicleEF	LDT1	7.6200e-004	6.4100e-004
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.01	8.0950e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.59	1.51
tblVehicleEF	LDT1	3.17	2.44
tblVehicleEF	LDT1	334.24	318.34
tblVehicleEF	LDT1	71.61	65.58
tblVehicleEF	LDT1	0.15	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.90

tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	3.3630e-003	3.1500e-003
tblVehicleEF	LDT1	7.7200e-004	6.4900e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	7.0440e-003	5.0890e-003
tblVehicleEF	LDT2	7.1880e-003	0.07
tblVehicleEF	LDT2	0.84	1.06
tblVehicleEF	LDT2	1.49	2.74
tblVehicleEF	LDT2	382.63	349.24
tblVehicleEF	LDT2	81.02	71.19
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.8330e-003	3.4550e-003

tblVehicleEF	LDT2	8.3500e-004	7.0500e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	7.5350e-003	5.4660e-003
tblVehicleEF	LDT2	6.3730e-003	0.06
tblVehicleEF	LDT2	0.94	1.18
tblVehicleEF	LDT2	1.28	2.34
tblVehicleEF	LDT2	402.38	363.41
tblVehicleEF	LDT2	81.02	70.44
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	4.0320e-003	3.5950e-003
tblVehicleEF	LDT2	8.3200e-004	6.9700e-004
tblVehicleEF	LDT2	0.08	0.13

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LDT2	6.8940e-003	4.9780e-003
tblVehicleEF	LDT2	7.3550e-003	0.07
tblVehicleEF	LDT2	0.81	1.02
tblVehicleEF	LDT2	1.53	2.82
tblVehicleEF	LDT2	376.06	344.49
tblVehicleEF	LDT2	81.02	71.35
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LDT2	3.7670e-003	3.4080e-003
tblVehicleEF	LDT2	8.3600e-004	7.0600e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07

tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.8640e-003	5.6690e-003
tblVehicleEF	LHD1	0.01	6.0180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.71
tblVehicleEF	LHD1	2.81	1.13
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.37
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.31	0.90
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.07	0.05

tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2200e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6820e-003
tblVehicleEF	LHD1	0.01	6.1380e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.92	0.72
tblVehicleEF	LHD1	2.68	1.08
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.71
tblVehicleEF	LHD1	33.50	12.28
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.23	0.84
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004

tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0030e-003	6.5590e-003
tblVehicleEF	LHD1	3.8500e-004	1.2200e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6670e-003
tblVehicleEF	LHD1	0.01	5.9900e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.70
tblVehicleEF	LHD1	2.82	1.14

tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.38
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.28	0.88
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2300e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003

tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	4.2390e-003	4.0130e-003
tblVehicleEF	LHD2	4.8300e-003	4.2070e-003
tblVehicleEF	LHD2	9.6290e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.43	0.76
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.60
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.93	1.09
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.05	0.05

tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0220e-003
tblVehicleEF	LHD2	4.8960e-003	4.2550e-003
tblVehicleEF	LHD2	9.2930e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.37	0.73
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.95
tblVehicleEF	LHD2	28.08	9.54
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.88	1.03
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004

tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0600e-004	9.4000e-005
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0110e-003
tblVehicleEF	LHD2	4.8130e-003	4.1960e-003
tblVehicleEF	LHD2	9.6860e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.40	0.48
tblVehicleEF	LHD2	1.44	0.77

tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.61
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.92	1.07
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004

tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	MCY	0.50	0.37
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.08	19.33
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	182.36	218.96
tblVehicleEF	MCY	45.23	60.14
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.49	2.50
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.2100e-003	2.1670e-003
tblVehicleEF	MCY	6.7000e-004	5.9500e-004
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	3.08	3.10
tblVehicleEF	MCY	0.63	2.04

tblVehicleEF	MCY	2.24	1.99
tblVehicleEF	MCY	0.49	0.36
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.59	18.81
tblVehicleEF	MCY	8.86	7.79
tblVehicleEF	MCY	182.36	217.93
tblVehicleEF	MCY	45.23	58.33
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.2010e-003	2.1570e-003
tblVehicleEF	MCY	6.5100e-004	5.7700e-004
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	3.02	3.03
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.51	0.37

tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.10	19.35
tblVehicleEF	MCY	9.72	8.59
tblVehicleEF	MCY	182.36	219.02
tblVehicleEF	MCY	45.23	60.39
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	2.49	2.51
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	2.2110e-003	2.1670e-003
tblVehicleEF	MCY	6.7300e-004	5.9800e-004
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	3.09	3.11
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	7.0560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.48	1.33

tblVehicleEF	MDV	2.84	3.27
tblVehicleEF	MDV	515.44	429.05
tblVehicleEF	MDV	107.59	87.05
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.22	0.44
tblVehicleEF	MDV	5.1660e-003	4.2420e-003
tblVehicleEF	MDV	1.1260e-003	8.6100e-004
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.01	7.5220e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.63	1.46
tblVehicleEF	MDV	2.45	2.79
tblVehicleEF	MDV	541.84	444.43

tblVehicleEF	MDV	107.59	86.14
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.39
tblVehicleEF	MDV	5.4320e-003	4.3940e-003
tblVehicleEF	MDV	1.1190e-003	8.5200e-004
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.43
tblVehicleEF	MDV	0.01	6.9160e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.43	1.28
tblVehicleEF	MDV	2.92	3.36
tblVehicleEF	MDV	506.79	424.01
tblVehicleEF	MDV	107.59	87.24
tblVehicleEF	MDV	0.16	0.12

tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.23	0.45
tblVehicleEF	MDV	5.0790e-003	4.1920e-003
tblVehicleEF	MDV	1.1270e-003	8.6300e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.61	0.31
tblVehicleEF	MH	6.11	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.32	3.91
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10

tblVehicleEF	MH	1.1510e-003	0.00
tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0200e-004	0.00
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tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.69	0.31
tblVehicleEF	MH	5.74	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.22	3.69
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10

tblVehicleEF	MH	1.1510e-003	0.00
tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	6.9500e-004	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.59	0.31
tblVehicleEF	MH	6.16	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.30	3.84
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10

tblVehicleEF	MH	1.1510e-003	0.00
tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0300e-004	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MHD	0.02	4.2430e-003
tblVehicleEF	MHD	4.8740e-003	6.7470e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.37	0.38
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.44	1.34
tblVehicleEF	MHD	139.10	66.57
tblVehicleEF	MHD	1,139.95	1,077.13
tblVehicleEF	MHD	61.46	11.49

tblVehicleEF	MHD	0.55	0.55
tblVehicleEF	MHD	1.18	2.23
tblVehicleEF	MHD	3.6300e-004	1.8180e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	3.4700e-004	1.7400e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.3390e-003	6.3300e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2800e-004	1.1400e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.43	0.07
tblVehicleEF	MHD	0.02	4.0190e-003
tblVehicleEF	MHD	4.9460e-003	6.7970e-003

tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.27	0.31
tblVehicleEF	MHD	0.37	0.63
tblVehicleEF	MHD	6.12	1.27
tblVehicleEF	MHD	147.32	67.79
tblVehicleEF	MHD	1,139.95	1,077.14
tblVehicleEF	MHD	61.46	11.37
tblVehicleEF	MHD	0.57	0.55
tblVehicleEF	MHD	1.11	2.10
tblVehicleEF	MHD	3.0600e-004	1.5350e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	2.9300e-004	1.4690e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	MHD	1.4170e-003	6.4400e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2200e-004	1.1300e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03

tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.42	0.06
tblVehicleEF	MHD	0.02	4.5650e-003
tblVehicleEF	MHD	4.8520e-003	6.7310e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.50	1.35
tblVehicleEF	MHD	127.72	64.87
tblVehicleEF	MHD	1,139.95	1,077.13
tblVehicleEF	MHD	61.46	11.51
tblVehicleEF	MHD	0.53	0.54
tblVehicleEF	MHD	1.16	2.19
tblVehicleEF	MHD	4.4200e-004	2.2090e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	4.2300e-004	2.1140e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.04	0.11

tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.2320e-003	6.1600e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2900e-004	1.1400e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.44	0.07
tblVehicleEF	OBUS	0.01	8.8890e-003
tblVehicleEF	OBUS	8.7600e-003	9.7060e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.58
tblVehicleEF	OBUS	0.59	1.02
tblVehicleEF	OBUS	5.80	2.47
tblVehicleEF	OBUS	101.23	91.74
tblVehicleEF	OBUS	1,241.90	1,424.87
tblVehicleEF	OBUS	68.87	19.84
tblVehicleEF	OBUS	0.52	0.58
tblVehicleEF	OBUS	1.61	2.00
tblVehicleEF	OBUS	1.8000e-004	2.2610e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.7300e-004	2.1630e-003

tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	9.7800e-004	8.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9100e-004	1.9600e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9090e-003
tblVehicleEF	OBUS	8.9130e-003	9.8460e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.55
tblVehicleEF	OBUS	0.60	1.04
tblVehicleEF	OBUS	5.48	2.33
tblVehicleEF	OBUS	106.24	92.40
tblVehicleEF	OBUS	1,241.90	1,424.90

tblVehicleEF	OBUS	68.87	19.61
tblVehicleEF	OBUS	0.53	0.58
tblVehicleEF	OBUS	1.52	1.88
tblVehicleEF	OBUS	1.5200e-004	1.9110e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.4600e-004	1.8280e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.25
tblVehicleEF	OBUS	0.35	0.11
tblVehicleEF	OBUS	1.0260e-003	8.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8500e-004	1.9400e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.25
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.8830e-003

tblVehicleEF	OBUS	8.7200e-003	9.6690e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.30	0.62
tblVehicleEF	OBUS	0.59	1.02
tblVehicleEF	OBUS	5.86	2.50
tblVehicleEF	OBUS	94.31	90.82
tblVehicleEF	OBUS	1,241.90	1,424.86
tblVehicleEF	OBUS	68.87	19.88
tblVehicleEF	OBUS	0.49	0.58
tblVehicleEF	OBUS	1.59	1.97
tblVehicleEF	OBUS	2.2000e-004	2.7450e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	2.1000e-004	2.6260e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5900e-003	2.0390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.12
tblVehicleEF	OBUS	9.1200e-004	8.6400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9700e-004
tblVehicleEF	OBUS	1.5900e-003	2.0390e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.3270e-003
tblVehicleEF	SBUS	0.07	6.6490e-003
tblVehicleEF	SBUS	7.86	2.82
tblVehicleEF	SBUS	0.81	0.72
tblVehicleEF	SBUS	7.55	0.92
tblVehicleEF	SBUS	1,146.60	356.21
tblVehicleEF	SBUS	1,098.65	1,119.95
tblVehicleEF	SBUS	52.57	5.57
tblVehicleEF	SBUS	10.06	3.44
tblVehicleEF	SBUS	4.64	5.26
tblVehicleEF	SBUS	0.01	4.7700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	4.5640e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	3.6480e-003	1.0930e-003
tblVehicleEF	SBUS	0.03	8.9370e-003

tblVehicleEF	SBUS	0.94	0.33
tblVehicleEF	SBUS	1.8170e-003	5.4700e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.01	3.3990e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5600e-004	5.5000e-005
tblVehicleEF	SBUS	3.6480e-003	1.0930e-003
tblVehicleEF	SBUS	0.03	8.9370e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	1.8170e-003	5.4700e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.44	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.4260e-003
tblVehicleEF	SBUS	0.06	5.8400e-003
tblVehicleEF	SBUS	7.73	2.78
tblVehicleEF	SBUS	0.82	0.73
tblVehicleEF	SBUS	6.01	0.73
tblVehicleEF	SBUS	1,199.32	365.47
tblVehicleEF	SBUS	1,098.65	1,119.97
tblVehicleEF	SBUS	52.57	5.25
tblVehicleEF	SBUS	10.38	3.52
tblVehicleEF	SBUS	4.37	4.95
tblVehicleEF	SBUS	9.1580e-003	4.0280e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	8.7620e-003	3.8540e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	0.94	0.33
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.35	0.03
tblVehicleEF	SBUS	0.01	3.4870e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3100e-004	5.2000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.3040e-003
tblVehicleEF	SBUS	0.07	6.8160e-003

tblVehicleEF	SBUS	8.03	2.88
tblVehicleEF	SBUS	0.81	0.72
tblVehicleEF	SBUS	7.81	0.95
tblVehicleEF	SBUS	1,073.80	343.43
tblVehicleEF	SBUS	1,098.65	1,119.94
tblVehicleEF	SBUS	52.57	5.62
tblVehicleEF	SBUS	9.61	3.32
tblVehicleEF	SBUS	4.57	5.17
tblVehicleEF	SBUS	0.01	5.7950e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	5.5450e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
tblVehicleEF	SBUS	0.03	9.5230e-003
tblVehicleEF	SBUS	0.95	0.33
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.2780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6100e-004	5.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003

tblVehicleEF	SBUS	0.03	9.5230e-003
tblVehicleEF	SBUS	1.37	0.47
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.45	0.04
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.01	39.42
tblVehicleEF	UBUS	10.46	0.95
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.70
tblVehicleEF	UBUS	9.09	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.79	0.06

tblVehicleEF	UBUS	9.6900e-003	2.3330e-003
tblVehicleEF	UBUS	1.2560e-003	1.1600e-004
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.87	0.07
tblVehicleEF	UBUS	2.52	5.87
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.06	39.42
tblVehicleEF	UBUS	9.07	0.83
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.50
tblVehicleEF	UBUS	8.56	1.21
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	0.81	0.09

tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	0.73	0.06
tblVehicleEF	UBUS	9.6910e-003	2.3330e-003
tblVehicleEF	UBUS	1.2320e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	3.42	5.99
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.00	39.42
tblVehicleEF	UBUS	10.67	0.97
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.73
tblVehicleEF	UBUS	8.92	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01

tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	9.6890e-003	2.3330e-003
tblVehicleEF	UBUS	1.2600e-003	1.1600e-004
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.88	0.07
tblVehicleTrips	ST_TR	2.46	2.21
tblVehicleTrips	ST_TR	1.64	2.56
tblVehicleTrips	SU_TR	1.05	0.70
tblVehicleTrips	SU_TR	0.76	1.08
tblVehicleTrips	WD_TR	11.03	9.74
tblVehicleTrips	WD_TR	11.42	12.44

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.5238	1.5000e-004	0.0162	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0368
Energy	0.0458	0.4160	0.3494	2.5000e-003		0.0316	0.0316		0.0316	0.0316		499.1391	499.1391	9.5700e-003	9.1500e-003	502.1053
Mobile	5.3747	16.3028	51.9710	0.1492	13.8695	0.2133	14.0829	3.7047	0.2013	3.9060		15,343.5424	15,343.5424	0.9414		15,367.0762
Total	**8.9442**	**16.7189**	**52.3365**	**0.1517**	**13.8695**	**0.2450**	**14.1145**	**3.7047**	**0.2330**	**3.9377**		**15,842.7161**	**15,842.7161**	**0.9510**	**9.1500e-003**	**15,869.2183**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.5238	1.5000e-004	0.0162	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0368
Energy	0.0458	0.4160	0.3494	2.5000e-003		0.0316	0.0316		0.0316	0.0316		499.1391	499.1391	9.5700e-003	9.1500e-003	502.1053
Mobile	5.3747	16.3028	51.9710	0.1492	13.8695	0.2133	14.0829	3.7047	0.2013	3.9060		15,343.5424	15,343.5424	0.9414		15,367.0762
Total	**8.9442**	**16.7189**	**52.3365**	**0.1517**	**13.8695**	**0.2450**	**14.1145**	**3.7047**	**0.2330**	**3.9377**		**15,842.7161**	**15,842.7161**	**0.9510**	**9.1500e-003**	**15,869.2183**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.3747	16.3028	51.9710	0.1492	13.8695	0.2133	14.0829	3.7047	0.2013	3.9060		15,343.5424	15,343.5424	0.9414		15,367.0762
Unmitigated	5.3747	16.3028	51.9710	0.1492	13.8695	0.2133	14.0829	3.7047	0.2013	3.9060		15,343.5424	15,343.5424	0.9414		15,367.0762

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	78.54	17.82	5.64	191,531	191,531
Office Park	1,861.09	382.99	161.57	4,754,241	4,754,241
Total	1,939.63	400.81	167.22	4,945,772	4,945,772

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Office Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0458	0.4160	0.3494	2.5000e-003		0.0316	0.0316		0.0316	0.0316		499.1391	499.1391	9.5700e-003	9.1500e-003	502.1053
NaturalGas Unmitigated	0.0458	0.4160	0.3494	2.5000e-003		0.0316	0.0316		0.0316	0.0316		499.1391	499.1391	9.5700e-003	9.1500e-003	502.1053

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	229.99	2.4800e-003	0.0226	0.0189	1.4000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003		27.0576	27.0576	5.2000e-004	5.0000e-004	27.2184
Office Park	4012.69	0.0433	0.3934	0.3305	2.3600e-003		0.0299	0.0299		0.0299	0.0299		472.0815	472.0815	9.0500e-003	8.6500e-003	474.8869
Total		**0.0458**	**0.4160**	**0.3494**	**2.5000e-003**		**0.0316**	**0.0316**		**0.0316**	**0.0316**		**499.1391**	**499.1391**	**9.5700e-003**	**9.1500e-003**	**502.1053**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.22999	2.4800e-003	0.0226	0.0189	1.4000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003		27.0576	27.0576	5.2000e-004	5.0000e-004	27.2184
Office Park	4.01269	0.0433	0.3934	0.3305	2.3600e-003		0.0299	0.0299		0.0299	0.0299		472.0815	472.0815	9.0500e-003	8.6500e-003	474.8869
Total		**0.0458**	**0.4160**	**0.3494**	**2.5000e-003**		**0.0316**	**0.0316**		**0.0316**	**0.0316**		**499.1391**	**499.1391**	**9.5700e-003**	**9.1500e-003**	**502.1053**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.5238	1.5000e-004	0.0162	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0368
Unmitigated	3.5238	1.5000e-004	0.0162	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0368

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1219					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5100e-003	1.5000e-004	0.0162	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0368
Total	**3.5238**	**1.5000e-004**	**0.0162**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0368**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1219					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5100e-003	1.5000e-004	0.0162	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0345	0.0345	9.0000e-005		0.0368
Total	**3.5238**	**1.5000e-004**	**0.0162**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0345**	**0.0345**	**9.0000e-005**		**0.0368**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX B: MOBILE SOURCE HEALTH RISK ASSESSMENT

Pioneer Boulevard Development

MOBILE SOURCE HEALTH RISK ASSESSMENT

CITY OF SANTA FE SPRINGS

PREPARED BY:

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AUGUST 19, 2019

TABLE OF CONTENTS

TABLE OF CONTENTS I
APPENDICES I
LIST OF EXHIBITS II
LIST OF TABLES II
LIST OF ABBREVIATED TERMS III
EXECUTIVE SUMMARY 1
1 INTRODUCTION 3
1.1 Site Location 4
1.2 Project Study Area 4
1.3 Project Description 4
2 BACKGROUND 8
2.1 Background on Recommended Methodology 8
2.2 Emissions Estimation 8
2.3 Exposure Quantification 13
2.4 Carcinogenic Chemical Risk 15
2.5 Non-carcinogenic Exposures 17
2.6 Toxic Air Pollutants from Project Construction Activities 18
2.7 Potential Project-Related DPM Source Cancer and Non-Cancer Risks 19
3 REFERENCES 22
4 CERTIFICATION 24

APPENDICES

APPENDIX 2.1: AERMOD MODEL INPUT/OUTPUT
APPENDIX 2.2: RISK CALCULATIONS

LIST OF EXHIBITS

EXHIBIT 1-A: LOCATION MAP 5
EXHIBIT 1-B: SITE PLAN 6
EXHIBIT 2-A: MODELED EMISSION SOURCES 11
EXHIBIT 2-B: WIND ROSE (SRA 5) 14
EXHIBIT 2-C: MODELED RECEPTORS 20

LIST OF TABLES

TABLE ES-1: SUMMARY OF CANCER AND NON-CANCER RISKS 2
TABLE 2-1: 2021 WEIGHTED AVERAGE DPM EMISSIONS FACTORS 10
TABLE 2-2: DPM EMISSIONS FROM PROJECT TRUCKS (2021 ANALYSIS YEAR) 12
TABLE 2-3: AERMOD MODEL PARAMETERS 13
TABLE 2-4: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (30 YEAR RESIDENTIAL) 16
TABLE 2-5: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (25 YEAR WORKER) 16
TABLE 2-6: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (9 YEAR SCHOOL CHILD) 16

LIST OF ABBREVIATED TERMS

(1)	Reference
µg	Microgram
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
APS	Auxiliary Power System
AQMD	Air Quality Management District
ARB	Air Resources Board
CEQA	California Environmental Quality Act
CPF	Cancer Potency Factor
DPM	Diesel Particulate Matter
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
HHD	Heavy Heavy-Duty
HI	Hazard Index
HRA	Health Risk Assessment
LHD	Light Heavy-Duty
MATES	Multiple Air Toxics Exposure Study
MEIR	Maximally Exposed Individual Receptor
MEISC	Maximally Exposed Individual School Child
MEIW	Maximally Exposed Individual Worker
MHD	Medium Heavy-Duty
NAD	North American Datum
OEHHA	Office of Environmental Health Hazard
PCE	Passenger Car Equivalent
PM10	Particulate Matter 10 microns in diameter or less
Project	Pioneer Boulevard Development
REL	Reference Exposure Level
RM	Recommended Measures
SCAQMD	South Coast Air Quality Management District
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TIA	Traffic Impact Analysis
URF	Unit Risk Factor
UTM	Universal Transverse Mercator
VMT	Vehicle Miles Traveled

EXECUTIVE SUMMARY

This report evaluates the potential mobile source health risk impacts to sensitive receptors (residents) and adjacent workers associated with the development of the proposed Project, more specifically, health risk impacts as a result of exposure to diesel particulate matter (DPM) as a result of heavy-duty diesel trucks accessing the site. This section summarizes the significance criteria and Project mobile source health risks.

The results of the health risk assessment of lifetime cancer risk from Project-generated DPM emissions are provided in Table ES-1 below for the Project.

Residential Exposure Scenario:

The residential land uses with the greatest potential exposure to Project DPM source emissions are located approximately 1,300 feet west of the Project site at the southwest corner of Telegraph Road and Alburtis Avenue. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 0.68 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.0002, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent residences.

Worker Exposure Scenario:

The worker receptor land use with the greatest potential exposure to Project DPM source emissions is located approximately 65 feet south of the Project site at existing industrial land uses. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact at this location is 0.53 in one million which is less than the threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be 0.002, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. All other modeled worker locations in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein.

School Child Exposure Scenario:

The school site land use with the greatest potential exposure to Project DPM source emissions is located approximately ½ mile (2,640 feet) south of the Project site at Lake Center Junior High School. At the maximally exposed individual school child (MEISC), the maximum incremental cancer risk impact attributable to the Project at this location is calculated to be an estimated 0.10 in one million which is less than the significance threshold of 10 in one million. At this same location, non-cancer risks attributable to the Project were calculated to be 0.0002, which would not exceed the applicable significance threshold of 1.0. Any other schools near the Project site would be exposed to less emissions and consequently less impacts than what is disclosed for the MEISC. As such, the Project will not cause a significant human health or cancer risk to nearby school children.

TABLE ES-1: SUMMARY OF CANCER AND NON-CANCER RISKS

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
30 Year Exposure	Maximum Exposed Sensitive Receptor	0.68	10	NO
25 Year Exposure	Maximum Exposed Worker Receptor	0.53	10	NO
9 Year Exposure	Maximum Exposed School Child Receptor	0.10	10	NO
Time Period	**Location**	**Maximum Hazard Index**	**Significance Threshold**	**Exceeds Significance Threshold**
Annual Average	Maximum Exposed Sensitive Receptor	0.0002	1.0	NO
Annual Average	Maximum Exposed Worker Receptor	0.002	1.0	NO
Annual Average	Maximum Exposed School Child Receptor	0.0002	1.0	NO

1 INTRODUCTION

The purpose of this Health Risk Assessment (HRA) is to evaluate Project-related impacts to sensitive receptors (residential, schools) and adjacent workers as a result of heavy-duty diesel trucks accessing the site.

The South Coast Air Quality Management District (SCAQMD) requests that if a proposed Project is expected to generate/attract heavy-duty diesel trucks, which emit diesel particulate matter (DPM), preparation of a mobile source HRA is recommended. This document serves to meet the SCAQMD's request for preparation of a HRA. The mobile source HRA has been prepared in accordance with the document Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1) and is comprised of all relevant and appropriate procedures presented by the U.S. EPA, California Environmental Protection Agency and SCAQMD. Cancer risk is expressed in terms of expected incremental incidence per million population. The SCAQMD has established an incidence rate of ten (10) persons per million as the maximum acceptable incremental cancer risk due to DPM exposure. This threshold serves to determine whether or not a given project has a potentially significant development-specific and cumulative impact.

The AQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (2). In this report the AQMD clearly states (Page D-3):

"…the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (TAC) emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.

Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."

The SCAQMD has also established non-carcinogenic risk parameters for use in HRAs. Non-carcinogenic risks are quantified by calculating a "hazard index," expressed as the ratio between the ambient pollutant concentration and its toxicity or Reference Exposure Level (REL). An REL is a concentration at or below which health effects are not likely to occur. A hazard index less of than one (1.0) means that adverse health effects are not expected. Within this analysis, non-carcinogenic exposures of less than 1.0 are considered less-than-significant.

1.1 SITE LOCATION

The proposed Pioneer Boulevard Development is located at 9920 Pioneer Boulevard, in the City of Santa Fe Springs, as shown on Exhibit 1-A.

1.2 PROJECT STUDY AREA

The Project site is currently developed with 149,605 square feet (sf) business park and 8,064 sf general office building uses. The Project site is located within a developed and urban area with the City Santa Fe Springs. The surrounding land uses are described below.

- North: Immediately north of the project site are business park uses, designated as Business Park in the General Plan and zoned Limited Manufacturing (ML). A single-family residential neighborhood is to the northwest of the project site, designated as Single Family Residential in the General Plan and zoned Single Family (R-1).
- West: Adjacent to the project site are business park uses, designated as Business Park in the General Plan and zoned Limited Manufacturing (ML). Beyond the business park is a multi-family development designated as Multiple Family Residential and zoned Multiple Family – Planned Development Overlay Zone (R-3-PD).
- South: Immediately south of the project site are business park uses, designated and zoned with the same land uses as the project site: Business Park and Limited Manufacturing (ML). The City of Santa Fe Springs Civic Center is located southwest of the project site with a designation of Public Facilities by the General Plan and zoned a combination of Community Commercial (C-4), Public Facilities (PF), and Limited Manufacturing (ML) each with a Design Overlay zone.
- East: Across from the Southern Pacific railroad tracks are industrial uses, east of the project site. The General Plan designates this area as Industrial. The City zones the area as Heavy Manufacturing (M-2).

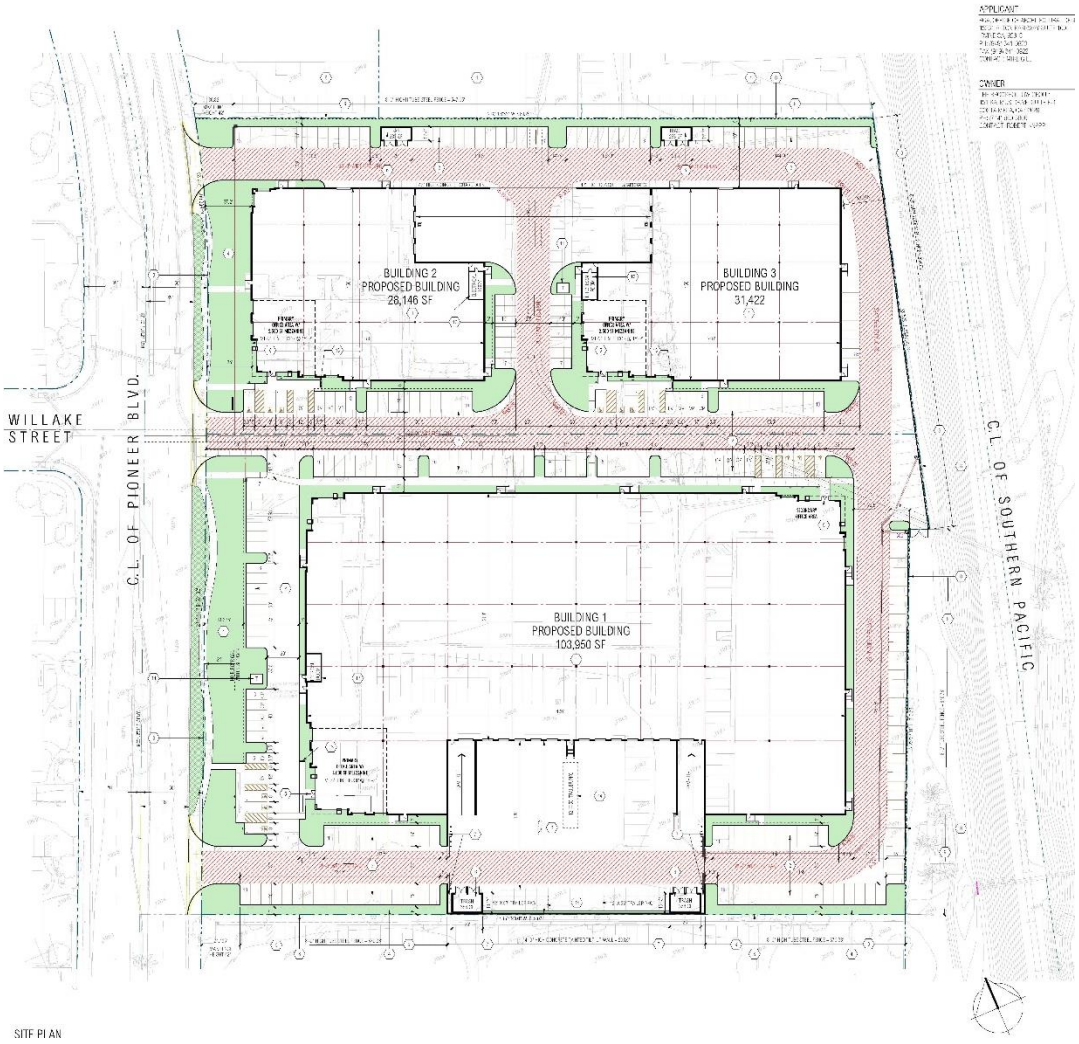
1.3 PROJECT DESCRIPTION

Exhibit 1-B illustrates the preliminary site plan. As indicated on Exhibit 1-B, the Project is proposed to consist 163,518 sf of general light industrial use within 3 buildings. The Project is anticipated to be constructed in a single phase by the year 2021. At the time this HRA was prepared, the future tenants of the proposed Project were unknown. This HRA study is intended to describe emission impacts associated with the expected typical 24-hour, seven days per week operational activities at the Project site.

EXHIBIT 1-A: LOCATION MAP



EXHIBIT 1-B: SITE PLAN



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2 BACKGROUND

2.1 BACKGROUND ON RECOMMENDED METHODOLOGY

As noted above, this HRA is based on SCAQMD guidelines to produce conservative estimates of risk posed by exposure to DPM. The conservative nature of this analysis is due primarily to the following factors:

- The ARB-adopted diesel exhaust Unit Risk Factor (URF) of 300 in one million per µg/m3 is based upon the upper 95 percentile of estimated risk for each of the epidemiological studies utilized to develop the URF. Using the 95th percentile URF represents a very conservative (health-protective) risk posed by DPM.
- The risk estimates assume sensitive receptors will be subject to DPM for 24 hours a day, 350 days a year.
- The emissions derived assume that every truck accessing the project site will idle for 15 minutes under the unmitigated scenario, this is an overestimation of actual idling times and thus conservative.[1] It should be noted that ARB's anti-idling requirements impose a 5-minute maximum idling time and therefore the analysis conservatively overestimates DPM emissions from idling by a factor of 3.

2.2 EMISSIONS ESTIMATION

2.2.1 ON-SITE AND OFF-SITE TRUCK ACTIVITY

Vehicle DPM emissions were estimated using emission factors for particulate matter less than 10µm in diameter (PM_{10}) generated with the 2017 version of the Emission FACtor model (EMFAC) developed by the ARB. EMFAC 2017 is a mathematical model that was developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the ARB to project changes in future emissions from on-road mobile sources (3). The most recent version of this model, EMFAC 2017, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day.

Several distinct emission processes are included in EMFAC 2017. Emission factors calculated using EMFAC 2017 are expressed in units of grams per vehicle miles traveled (g/VMT) or grams per idle-hour (g/idle-hr), depending on the emission process. The emission processes and corresponding emission factor units associated with diesel particulate exhaust for this Project are presented below.

For this Project, annual average PM_{10} emission factors were generated by running EMFAC 2017 in EMFAC Mode for vehicles in the SCAQMD jurisdiction. The EMFAC Mode generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of

[1] Although the Project is required to comply with ARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling (personal communication, in person, with Jillian Wong, December 22, 2016), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc.

emission factors at specific values of temperature, relative humidity, and vehicle speed. The model was run for speeds traveled in the vicinity of the Project. The vehicle travel speeds for each segment modeled are summarized below.

- Idling – on-site loading/unloading and truck gate
- 5 miles per hour – on-site vehicle movement including driving and maneuvering
- 25 miles per hour – off-site vehicle movement including driving and maneuvering.

Calculated emission factors are shown at Table 2-1. As a conservative measure, a 2021 EMFAC 2017 run was conducted and a static 2021 emissions factor data set was used for the entire duration of analysis herein (e.g., 30 years). Use of 2021 emission factors would overstate potential impacts since this approach assumes that emission factors remain "static" and do not change over time due to fleet turnover or cleaner technology with lower emissions that would incorporated after 2021. Additionally, based on EMFAC2017, Light-Heavy-Duty Trucks comprise of 47.7% diesel, Medium-Heavy-Duty Trucks comprise of 88.3% diesel, and Heavy-Heavy-Duty Trucks comprise of 96.1% diesel trucks and have been accounted for accordingly in the emissions factor generation.

The vehicle DPM exhaust emissions were calculated for running exhaust emissions. The running exhaust emissions were calculated by applying the running exhaust PM10 emission factor (g/VMT) from EMFAC over the total distance traveled. The following equation was used to estimate off-site emissions for each of the different vehicle classes comprising the mobile sources (3):

$Emissions_{speedA}$ (g/s) = $EF_{RunExhaust}$ (g/VMT) * Distance (VMT/trip) * Number of Trips (trips/day) / seconds per day

Where:

$Emissions_{speedA}$ (g/s): Vehicle emissions at a given speed A;

$EF_{RunExhaust}$ (g/VMT): EMFAC running exhaust PM_{10} emission factor at speed A;

Distance (VMT/trip): Total distance traveled per trip.

Similar to off-site traffic, on-site vehicle running emissions were calculated by applying the running exhaust PM_{10} emission factor (g/VMT) from EMFAC and the total vehicle trip number over the length of the driving path using the same formula presented above for on-site emissions. In addition, on-site vehicle idling exhaust emissions were calculated by applying the idle exhaust PM_{10} emission factor (g/idle-hr) from EMFAC and the total truck trip over the total idle time (15 minutes). The following equation was used to estimate the on-site vehicle idling emissions for each of the different vehicle classes (3):

$Emissions_{idle}$ (g/s) = EF_{idle} (g/hr) * Number of Trips (trips/day) * Idling Time (min/trip) *

60 minutes per hour / seconds per day

Where:

$Emissions_{idle}$ (g/s): Vehicle emissions during idling;

EF_{idle}(g/s): EMFAC idle exhaust PM_{10} emission factor.

TABLE 2-1: 2021 WEIGHTED AVERAGE DPM EMISSIONS FACTORS

Speed	Weighted Average
0 (idling)	0.18756 (g/idle-hr)
5	0.07541 (g/s)
25	0.03070 (g/s)

Each roadway was modeled as a line source (made up of multiple adjacent volume sources). Due to the large number of volume sources modeled for this analysis, the corresponding coordinates of each volume source have not been included in this report but are included in Appendix "2.1". The DPM emission rate for each volume source was calculated by multiplying the emission factor (based on the average travel speed along the roadway) by the number of trips and the distance traveled along each roadway segment and dividing the result by the number of volume sources along that roadway, as illustrated on Table 2-2. The modeled emission sources are illustrated on Exhibit 2-A. The modeled truck travel routes included in the HRA are based on the anticipated truck trip distributions (inbound and outbound). The modeled truck route was modeled to determine the potential impacts to sensitive receptors along the primary truck routes. The modeling domain is limited to the Project's primary truck route and includes off-site sources in the study area for approximately 1 mile. This modeling domain is more conservative than using only a ¼ mile modeling domain which is supported by substantial evidence since several studies have shown that the greatest potential risks occur within a ¼ mile of the primary source of emissions (4) (in the case of the Project this is the on-site idling and travel).

On-site truck idling was estimated to occur as trucks enter and travel through the facility. Although the Project is required to comply with CARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling (5), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc. As such, this analysis estimated truck idling at 15 minutes, consistent with SCAQMD's recommendation.

EXHIBIT 2-A: MODELED EMISSION SOURCES



TABLE 2-2: DPM EMISSIONS FROM PROJECT TRUCKS (2021 ANALYSIS YEAR)

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	55			0.1876	2.59	3.002E-05
On-Site Idling Building 2	15			0.1876	0.70	8.127E-06
On-Site Idling Building 3	17			0.1876	0.78	9.073E-06
On-Site Travel Building 1	111	11.77	0.0754		0.89	1.028E-05
On-Site Travel Buildings 2 & 3	63	5.82	0.0754		0.44	5.078E-06
Off-Site Travel 100% Project to Telegraph Road	174	27.98	0.0307		0.86	9.943E-06
Off-Site Travel 30%	52	37.54	0.0307		1.15	1.334E-05
Off-Site Travel 50%	87	65.78	0.0307		2.02	2.338E-05
Off-Site Travel 20%	35	48.62	0.0307		1.49	1.728E-05

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

Per the *Pioneer Boulevard Development Trip Generation Analysis* prepared by EPD Solutions, Inc. the Project is expected to generate a total of approximately 811 two-way trips per day (actual vehicles) and includes 174 two-way truck trips per day, including 65 2-axle, 32 3-axle, and 77 4+-axle truck trips per day (6).

2.3 EXPOSURE QUANTIFICATION

The analysis herein has been conducted in accordance with the guidelines in the Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1). SCAQMD recommends using the Environmental Protection Agency's (U.S. EPA's) AERMOD model. For purposes of this analysis, the Lakes AERMOD View (Version 9.6.5) was used to calculate annual average particulate concentrations associated with site operations.

The model offers additional flexibility by allowing the user to assign an initial release height and vertical dispersion parameters for mobile sources representative of a roadway. For this HRA, the roadways were modeled as adjacent volume sources. Roadways were modeled using the U.S. EPA's haul route methodology for modeling of on-site and off-site truck movement. More specifically, the Haul Road Volume Source Calculator in Lakes AERMOD View has been utilized to determine the release height parameters. Based on the US EPA methodology, the Project's modeled sources would result in a release height of 3.49 meters, and an initial lateral dimension of 4.0 meters, and an initial vertical dimension of 3.25 meters.

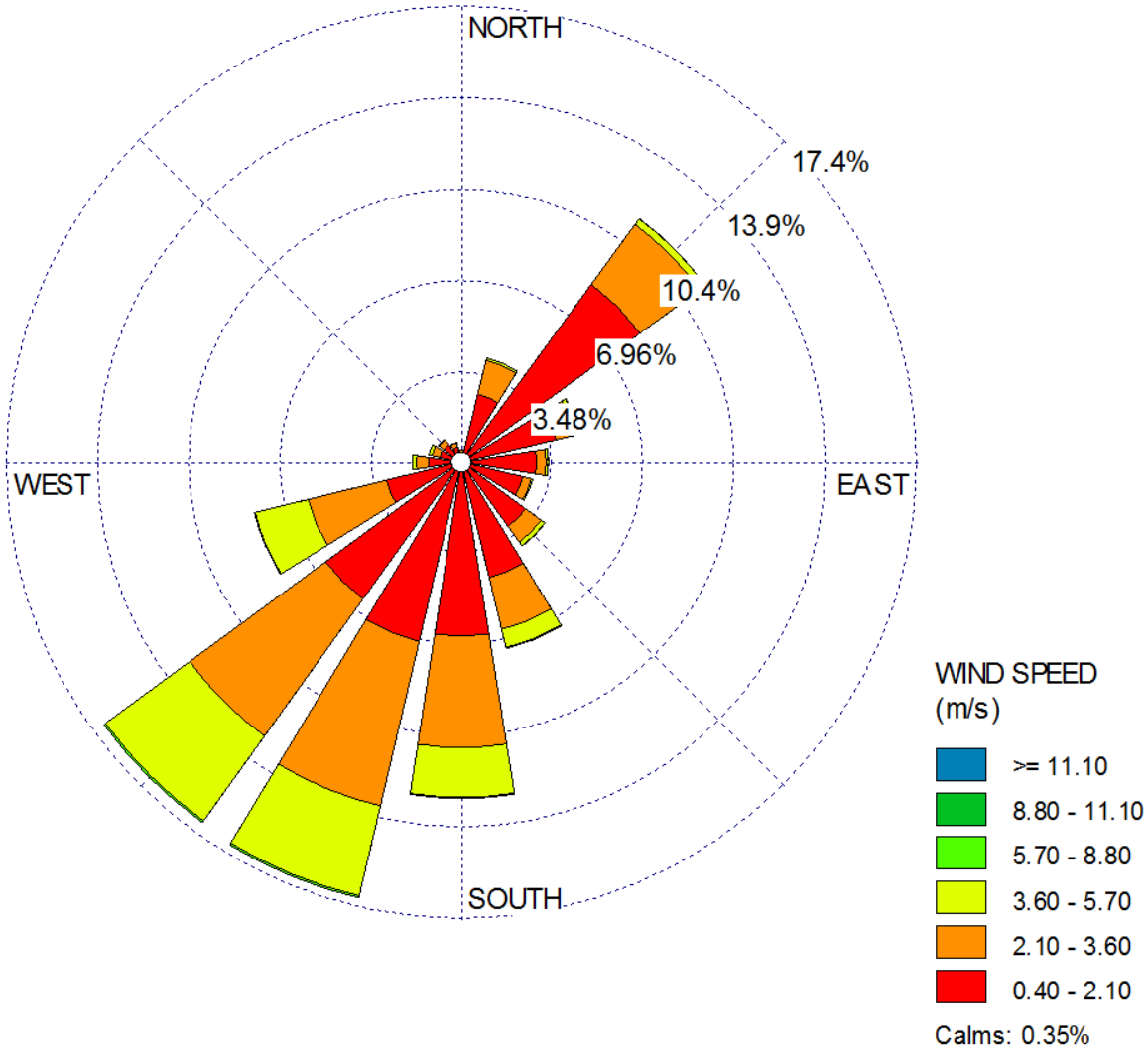
SCAQMD required model parameters are presented in Table 2-3 (7). The model requires additional input parameters including emission data and local meteorology. Meteorological data from the SCAQMD's Pico Rivera monitoring station (SRA 5) was used to represent local weather conditions and prevailing winds (8). A wind rose exhibit of the Peris monitoring station is provided at Exhibit 2-B.

TABLE 2-3: AERMOD MODEL PARAMETERS

Dispersion Coefficient	Urban
County Population	9,818,605
Terrain	Elevated (Regulatory Default)
Averaging Time	1 year (5-year Meteorological Data Set)
Receptor Height	0 meters (Regulatory Default)

Universal Transverse Mercator (UTM) coordinates for World Geodetic System (WGS) 84 were used to locate the project boundaries, each volume source location, and receptor locations in the project vicinity. The AERMOD dispersion model summary output files for the proposed facility are presented in Appendix "2.1". Modeled sensitive receptors were placed at discrete residential and non-residential locations.

EXHIBIT 2-B: WIND ROSE (SRA 5)



Receptors may be placed at applicable structure locations for residential and worker property and not necessarily the boundaries of these uses. It should be noted that the primary purpose of receptor placement is focused on long-term exposure. For example, the HRA evaluates the potential health risks to residential and worker over a period of 30 or 25 years of exposure, respectively. As such, even though it is unlikely to occur in practical terms (because the amount of time spent indoors), this study assumes that a resident or worker would be exposed over a long-period of time for 12 or 24-hours per day at the structure where they reside or work.

Furthermore, worker receptors immediately adjacent to the Project site have been evaluated in the HRA. Any impacts to workers located further away from the Project site than the modeled worker receptors would have a lesser impact than what has already been disclosed in the HRA at the MEIW.

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were obtained from relevant distribution profiles presented in the 2015 OEHHA Guidelines. Tables 2-4 through 2-6 summarize the Exposure Parameters for Residents, Offsite Worker, and School exposure scenarios based on 2015 OEHHA Guidelines. Appendix 2.2 includes the detailed risk calculation.

2.4 CARCINOGENIC CHEMICAL RISK

Based on the South Coast AQMD Air Quality Significance Thresholds (9) (April 2019), emissions of toxic air contaminants (TACs) are considered significant if a HRA shows an increased risk of greater than 10 in one million. Based on guidance from the SCAQMD in the document Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1), for purposes of this analysis, 10 in one million is used as the cancer risk threshold for the proposed Project.

Excess cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a unitless probability. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 10 in one million implies a likelihood that up to 10 people, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time. As an example, the risk of dying from accidental drowning is 1,000 in a million which is 100 times more than the SCAQMD's threshold of 10 in one million, the nearest comparison to 10 in one million is the 7 in one million lifetime chance that an individual would be struck by lightning.

Guidance from CARB and the California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA) recommends a refinement to the standard point estimate approach when alternate human body weights and breathing rates are utilized to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose. Once determined, contaminant dose is multiplied by the cancer potency factor (CPF) in units of

TABLE 2-4: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (30 YEAR RESIDENTIAL)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
-0.25 to 0	361	10	0.25	0.85	350	24
0 to 2	1090	10	2	0.85	350	24
2 to 16	572	3	14	0.72	350	24
16 to 30	261	1	14	0.73	350	24

TABLE 2-5: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (25 YEAR WORKER)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year)	Exposure Time (hours/day)
16 to 41	230	1	25	250	12

TABLE 2-6: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (9 YEAR SCHOOL CHILD)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year) [a]	Exposure Time (hours/day)
2-16	572	3	9	180	12

[a] To represent the unique characteristics of the school-based population, the assessment employed the U.S. Environmental Protection Agency's guidance to develop viable dose estimates based on reasonable maximum exposures (RME). RME's are defined as the "highest exposure that is reasonably expected to occur" for a given receptor population. As a result, lifetime risk values for the student population were adjusted to account for an exposure duration of 180 days per year for nine (9) years. The 9 year exposure duration is also consistent with OEHHA Recommendations and consistent with the exposure duration utilized in school-based risk assessments for various schools within the Los Angeles County Unified School District (LAUSD) that have been accepted by the SCAQMD.

inverse dose expressed in milligrams per kilogram per day (mg/kg/day)-1 to derive the cancer risk estimate. Therefore, to assess exposures, the following dose algorithm was utilized.

$$DOSEair = (Cair \times [BR/BW] \times A \times EF) \times (1 \times 10^{-6})$$

Where:

DOSEair = chronic daily intake (mg/kg/day)

Cair = concentration of contaminant in air (ug/m3)

[BR/BW] = daily breathing rate normalized to body weight (L/kg BW-day)

A = inhalation absorption factor

EF = exposure frequency (days/365 days)

BW = body weight (kg)

1 x 10 -6 = conversion factors (ug to mg, L to m3)

$$RISKair = DOSEair \times CPF \times ED/AT$$

Where:

DOSEair = chronic daily intake (mg/kg/day)

CPF = cancer potency factor

ED = number of years within particular age group

AT = averaging time

2.5 NON-CARCINOGENIC EXPOSURES

An evaluation of the potential noncarcinogenic effects of chronic exposures was also conducted. Adverse health effects are evaluated by comparing a compound's annual concentration with its toxicity factor or Reference Exposure Level (REL). The REL for diesel particulates was obtained from OEHHA for this analysis. The chronic reference exposure level (REL) for DPM was established by OEHHA as 5 $\mu g/m^3$ (OEHHA Toxicity Criteria Database, http://www.oehha.org/risk/chemicaldb/index.asp).

The non-cancer hazard index was calculated (consistent with SCAQMD methodology) as follows:

The relationship for the non-cancer health effects of DPM is given by the following equation:

$$HI_{DPM} = C_{DPM}/REL_{DPM}$$

Where:

HI_{DPM} = Hazard Index; an expression of the potential for non-cancer health

effects.

C_{DPM} = Annual average DPM concentration ($\mu g/m^3$).

REL_{DPM} = Reference exposure level (REL) for DPM; the DPM concentration at which no adverse health effects are anticipated.

For purposes of this analysis the hazard index for the respiratory endpoint totaled less than one for all receptors in the project vicinity, and thus is less than significant.

2.6 TOXIC AIR POLLUTANTS FROM PROJECT CONSTRUCTION ACTIVITIES

During short-term construction activity, the Project will also result in some diesel particulate matter (DPM) which is a listed carcinogen and toxic air contaminant (TAC) in the State of California. The 2015 Office of Environmental Health Hazard Assessment (OEHHA) revised risk assessment guidelines suggest that construction projects as short as 2-6 months may warrant evaluation. Notwithstanding, based on Urban Crossroad's professional opinion and experience in preparing health risk assessments for development projects, given the size of the Project and the relatively small amount of equipment and relative short duration of activity, any DPM generated from construction activity would be negligible and not result in any significant health risks and no further evaluation is required.

Furthermore, the SCAQMD has acknowledged that they are currently evaluating the applicability of age sensitivity factors and have not established CEQA guidance. More specifically in their response to comments received on SCAQMD Rules 1401 in June 2015 (see Board Meeting June 5, 2015), the SCAQMD explicitly states that (Page A-7 and A-8):

"The Proposed Amended Rules are separate from the CEQA significance thresholds. The SCAQMD staff is currently evaluating how to implement the Revised OEHHA Guidelines under CEQA. The SCAQMD staff will evaluate a variety of options on how to evaluate health risks under the Revised OEHHA Guidelines under CEQA. The SCAQMD staff will conduct public workshops to gather input before bringing recommendations to the Governing Board. In the interim, staff will continue to use the previous guidelines for CEQA determinations."

2.7 POTENTIAL PROJECT-RELATED DPM SOURCE CANCER AND NON-CANCER RISKS[2]

Residential Exposure Scenario:

The residential land uses with the greatest potential exposure to Project DPM source emissions are located approximately 1,300 feet west of the Project site at the southwest corner of Telegraph Road and Alburtis Avenue. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 0.68 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.0002, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent residences. The nearest modeled receptors are illustrated on Exhibit 2-C.

Worker Exposure Scenario:

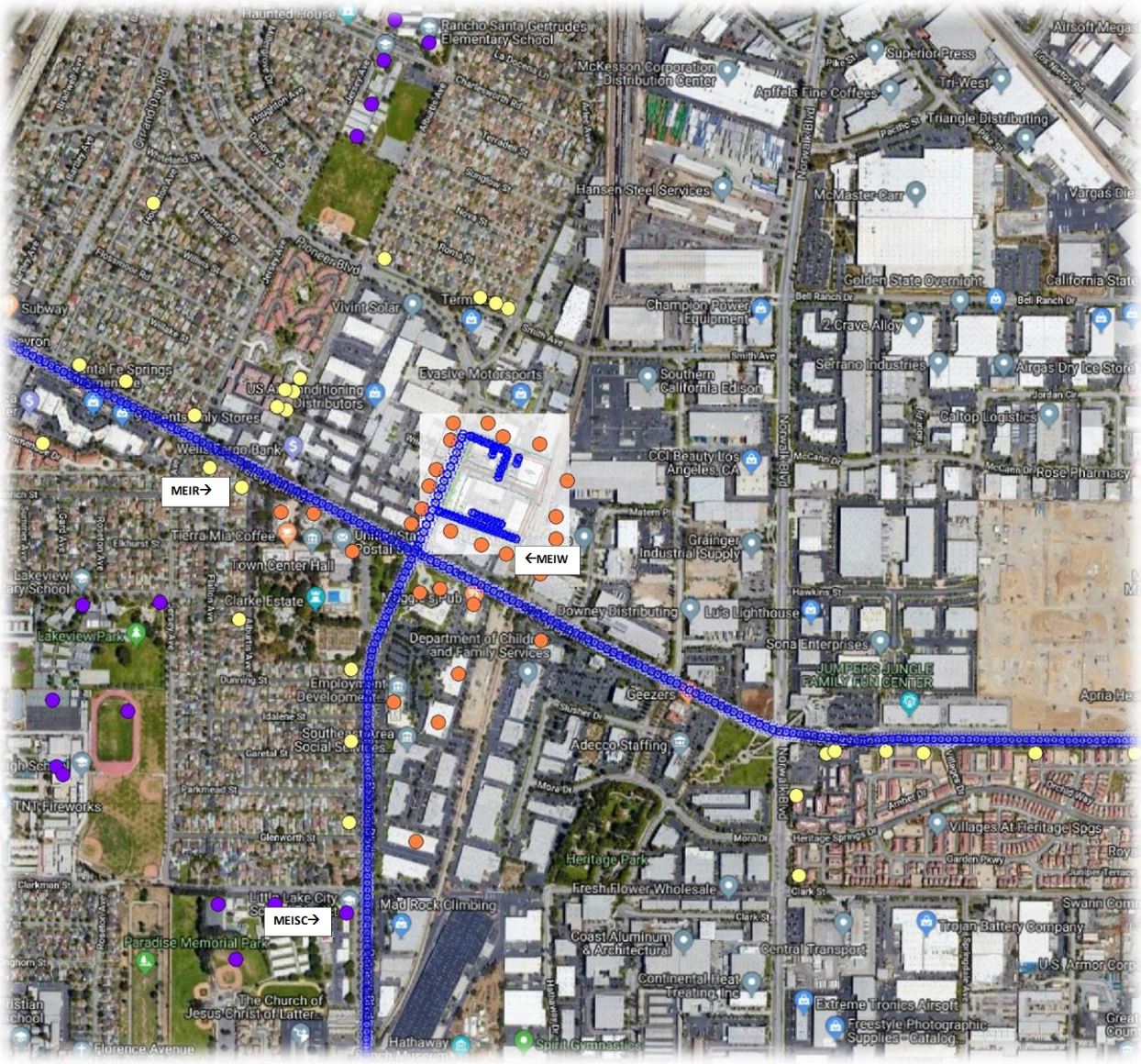
The worker receptor land use with the greatest potential exposure to Project DPM source emissions is located approximately 65 feet south of the Project site at existing industrial land uses. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact at this location is 0.53 in one million which is less than the threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be 0.002, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. All other modeled worker locations in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. The nearest modeled receptors are illustrated on Exhibit 2-C.

School Child Exposure Scenario:

The school site land use with the greatest potential exposure to Project DPM source emissions is located approximately ½ mile (2,640 feet) south of the Project site at Lake Center Junior High School. At the maximally exposed individual school child (MEISC), the maximum incremental cancer risk impact attributable to the Project at this location is calculated to be an estimated 0.10 in one million which is less than the significance threshold of 10 in one million. At this same location, non-cancer risks attributable to the Project were calculated to be 0.0002, which would not exceed the applicable significance threshold of 1.0. Any other schools near the Project site would be exposed to less emissions and consequently less impacts than what is disclosed for the MEISC. As such, the Project will not cause a significant human health or cancer risk to nearby school children. The nearest modeled receptors are illustrated on Exhibit 2-C.

2 SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

EXHIBIT 2-C: MODELED RECEPTORS



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3 REFERENCES

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4 CERTIFICATION

The contents of this health risk assessment represent an accurate depiction of the impacts to sensitive receptors associated with the proposed Pioneer Boulevard Development Project. The information contained in this health risk assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

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PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June, 2013
Planned Communities and Urban Infill – Urban Land Institute • June, 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August, 2007
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APPENDIX 2.1:

AERMOD MODEL INPUT/OUTPUT

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** Lakes Environmental AERMOD MPI
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**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 9.7.0
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 8/25/2019
** FILE: C:\LAKES\AERMOD VIEW\12415 HRA\12415 HRA.ADI
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** AERMOD CONTROL PATHWAY
**************************************
**
**
CO STARTING
   TITLEONE C:\LAKES\AERMOD VIEW\12415 HRA\12415 HRA.ISC
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 9818605
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "12415 HRA.ERR"
CO FINISHED
**
**************************************
** AERMOD SOURCE PATHWAY
**************************************
**
**
SO STARTING
** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
** ------------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE1
** DESCRSRC ON-SITE IDLING BUILDING 1
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00003002
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 400234.295, 3756683.391, 30.00, 3.49, 4.00
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** 400295.644, 3756660.061, 30.00, 3.49, 4.00
** ----------------------------------------------------------------
   LOCATION L0000643     VOLUME   400238.309 3756681.865 30.00
   LOCATION L0000644     VOLUME   400246.339 3756678.811 30.00
   LOCATION L0000645     VOLUME   400254.368 3756675.758 30.00
   LOCATION L0000646     VOLUME   400262.397 3756672.705 30.00
   LOCATION L0000647     VOLUME   400270.426 3756669.651 30.00
   LOCATION L0000648     VOLUME   400278.455 3756666.598 30.00
   LOCATION L0000649     VOLUME   400286.484 3756663.545 30.00
   LOCATION L0000650     VOLUME   400294.513 3756660.492 30.00
** END OF LINE VOLUME SOURCE ID = SLINE1
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE2
** DESCRSRC ON-SITE IDLING BUILDING 2
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 8.127E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 400280.938, 3756814.963, 30.00, 3.49, 4.00
** 400274.703, 3756797.716, 30.00, 3.49, 4.00
** ----------------------------------------------------------------
   LOCATION L0000651     VOLUME   400279.478 3756810.924 30.00
   LOCATION L0000652     VOLUME   400276.557 3756802.846 30.00
** END OF LINE VOLUME SOURCE ID = SLINE2
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE3
** DESCRSRC ON-SITE IDLING BUILDING 3
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 9.073E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 400330.689, 3756796.654, 30.06, 3.49, 4.00
** 400324.454, 3756779.407, 30.00, 3.49, 4.00
** ----------------------------------------------------------------
   LOCATION L0000653     VOLUME   400329.229 3756792.615 30.00
   LOCATION L0000654     VOLUME   400326.308 3756784.537 30.00
** END OF LINE VOLUME SOURCE ID = SLINE3
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE4
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** DESCRSRC ON-SITE TRAVEL BUILDING 1
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001028
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 400166.852, 3756687.110, 30.00, 3.49, 4.00
** 400328.028, 3756628.991, 30.00, 3.49, 4.00
** ----------------------------------------------------------------
   LOCATION L0000655     VOLUME   400170.892 3756685.653 30.00
   LOCATION L0000656     VOLUME   400178.973 3756682.739 30.00
   LOCATION L0000657     VOLUME   400187.053 3756679.825 30.00
   LOCATION L0000658     VOLUME   400195.134 3756676.911 30.00
   LOCATION L0000659     VOLUME   400203.215 3756673.997 30.00
   LOCATION L0000660     VOLUME   400211.296 3756671.084 30.00
   LOCATION L0000661     VOLUME   400219.376 3756668.170 30.00
   LOCATION L0000662     VOLUME   400227.457 3756665.256 30.00
   LOCATION L0000663     VOLUME   400235.538 3756662.342 30.00
   LOCATION L0000664     VOLUME   400243.618 3756659.428 30.00
   LOCATION L0000665     VOLUME   400251.699 3756656.514 30.00
   LOCATION L0000666     VOLUME   400259.780 3756653.601 30.00
   LOCATION L0000667     VOLUME   400267.860 3756650.687 30.00
   LOCATION L0000668     VOLUME   400275.941 3756647.773 30.00
   LOCATION L0000669     VOLUME   400284.022 3756644.859 30.00
   LOCATION L0000670     VOLUME   400292.103 3756641.945 30.00
   LOCATION L0000671     VOLUME   400300.183 3756639.032 30.00
   LOCATION L0000672     VOLUME   400308.264 3756636.118 30.00
   LOCATION L0000673     VOLUME   400316.345 3756633.204 30.00
   LOCATION L0000674     VOLUME   400324.425 3756630.290 30.00
** END OF LINE VOLUME SOURCE ID = SLINE4
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE5
** DESCRSRC ON-SITE TRAVEL BUILDING 2 & 3
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 5.078E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 4
** 400230.544, 3756840.725, 30.00, 3.49, 4.00
** 400305.296, 3756810.604, 30.00, 3.49, 4.00
** 400308.969, 3756808.951, 30.00, 3.49, 4.00
** 400285.644, 3756750.362, 30.00, 3.49, 4.00
** ----------------------------------------------------------------
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   LOCATION L0000675     VOLUME   400234.528 3756839.120 30.00
   LOCATION L0000676     VOLUME   400242.495 3756835.910 30.00
   LOCATION L0000677     VOLUME   400250.463 3756832.699 30.00
   LOCATION L0000678     VOLUME   400258.430 3756829.489 30.00
   LOCATION L0000679     VOLUME   400266.398 3756826.278 30.00
   LOCATION L0000680     VOLUME   400274.365 3756823.068 30.00
   LOCATION L0000681     VOLUME   400282.333 3756819.857 30.00
   LOCATION L0000682     VOLUME   400290.300 3756816.647 30.00
   LOCATION L0000683     VOLUME   400298.268 3756813.436 30.00
   LOCATION L0000684     VOLUME   400306.219 3756810.189 30.00
   LOCATION L0000685     VOLUME   400306.907 3756803.772 30.00
   LOCATION L0000686     VOLUME   400303.730 3756795.791 30.00
   LOCATION L0000687     VOLUME   400300.553 3756787.810 30.00
   LOCATION L0000688     VOLUME   400297.375 3756779.830 30.00
   LOCATION L0000689     VOLUME   400294.198 3756771.849 30.00
   LOCATION L0000690     VOLUME   400291.021 3756763.868 30.00
   LOCATION L0000691     VOLUME   400287.844 3756755.887 30.00
** END OF LINE VOLUME SOURCE ID = SLINE5
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE6
** DESCRSRC OFF-SITE TRAVEL 100% TO TELEGRAPH RD.
** PREFIX
** LENGTH OF SIDE = 16.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 9.943E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 4
** 400216.579, 3756845.375, 30.00, 3.49, 7.44
** 400201.260, 3756802.317, 30.00, 3.49, 7.44
** 400175.591, 3756744.355, 30.00, 3.49, 7.44
** 400119.285, 3756605.659, 30.00, 3.49, 7.44
** ----------------------------------------------------------------
   LOCATION L0000692     VOLUME   400213.897 3756837.838 30.00
   LOCATION L0000693     VOLUME   400208.534 3756822.764 30.00
   LOCATION L0000694     VOLUME   400203.171 3756807.689 30.00
   LOCATION L0000695     VOLUME   400197.090 3756792.901 30.00
   LOCATION L0000696     VOLUME   400190.611 3756778.272 30.00
   LOCATION L0000697     VOLUME   400184.133 3756763.642 30.00
   LOCATION L0000698     VOLUME   400177.654 3756749.012 30.00
   LOCATION L0000699     VOLUME   400171.489 3756734.250 30.00
   LOCATION L0000700     VOLUME   400165.470 3756719.425 30.00
   LOCATION L0000701     VOLUME   400159.452 3756704.600 30.00
   LOCATION L0000702     VOLUME   400153.433 3756689.775 30.00
   LOCATION L0000703     VOLUME   400147.415 3756674.950 30.00
   LOCATION L0000704     VOLUME   400141.396 3756660.125 30.00
   LOCATION L0000705     VOLUME   400135.378 3756645.300 30.00
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   LOCATION L0000706     VOLUME   400129.359 3756630.475 30.00
   LOCATION L0000707     VOLUME   400123.341 3756615.650 30.00
** END OF LINE VOLUME SOURCE ID = SLINE6
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE7
** DESCRSRC OFF-SITE TRAVEL 30%
** PREFIX
** LENGTH OF SIDE = 14.50
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001334
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 9
** 400119.820, 3756608.389, 30.00, 3.49, 6.74
** 400094.482, 3756555.277, 30.00, 3.49, 6.74
** 400070.606, 3756498.753, 30.00, 3.49, 6.74
** 400050.628, 3756451.975, 30.00, 3.49, 6.74
** 400030.162, 3756404.222, 30.00, 3.49, 6.74
** 400022.853, 3756359.393, 30.00, 3.49, 6.74
** 400019.442, 3756270.222, 30.00, 3.49, 6.74
** 400020.904, 3756128.426, 30.00, 3.49, 6.74
** 400017.036, 3755470.388, 30.00, 3.49, 6.74
** ----------------------------------------------------------------------
   LOCATION L0000724     VOLUME   400116.699 3756601.846 30.00
   LOCATION L0000725     VOLUME   400110.455 3756588.759 30.00
   LOCATION L0000726     VOLUME   400104.212 3756575.672 30.00
   LOCATION L0000727     VOLUME   400097.969 3756562.585 30.00
   LOCATION L0000728     VOLUME   400091.991 3756549.378 30.00
   LOCATION L0000729     VOLUME   400086.348 3756536.021 30.00
   LOCATION L0000730     VOLUME   400080.706 3756522.664 30.00
   LOCATION L0000731     VOLUME   400075.064 3756509.307 30.00
   LOCATION L0000732     VOLUME   400069.410 3756495.954 30.00
   LOCATION L0000733     VOLUME   400063.715 3756482.619 30.00
   LOCATION L0000734     VOLUME   400058.020 3756469.285 30.00
   LOCATION L0000735     VOLUME   400052.325 3756455.950 30.00
   LOCATION L0000736     VOLUME   400046.618 3756442.620 30.00
   LOCATION L0000737     VOLUME   400040.907 3756429.293 30.00
   LOCATION L0000738     VOLUME   400035.195 3756415.965 30.00
   LOCATION L0000739     VOLUME   400029.885 3756402.520 30.00
   LOCATION L0000740     VOLUME   400027.551 3756388.209 30.00
   LOCATION L0000741     VOLUME   400025.218 3756373.898 30.00
   LOCATION L0000742     VOLUME   400022.885 3756359.587 30.00
   LOCATION L0000743     VOLUME   400022.306 3756345.100 30.00
   LOCATION L0000744     VOLUME   400021.752 3756330.611 30.00
   LOCATION L0000745     VOLUME   400021.198 3756316.122 30.00
   LOCATION L0000746     VOLUME   400020.644 3756301.632 30.00
   LOCATION L0000747     VOLUME   400020.089 3756287.143 30.00
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LOCATION	L0000748	VOLUME	400019.535	3756272.653 30.00
LOCATION	L0000749	VOLUME	400019.567	3756258.156 30.00
LOCATION	L0000750	VOLUME	400019.716	3756243.656 30.00
LOCATION	L0000751	VOLUME	400019.865	3756229.157 30.00
LOCATION	L0000752	VOLUME	400020.015	3756214.658 30.00
LOCATION	L0000753	VOLUME	400020.164	3756200.159 30.00
LOCATION	L0000754	VOLUME	400020.314	3756185.660 30.00
LOCATION	L0000755	VOLUME	400020.463	3756171.160 30.00
LOCATION	L0000756	VOLUME	400020.613	3756156.661 30.00
LOCATION	L0000757	VOLUME	400020.762	3756142.162 30.00
LOCATION	L0000758	VOLUME	400020.899	3756127.663 30.00
LOCATION	L0000759	VOLUME	400020.814	3756113.163 30.00
LOCATION	L0000760	VOLUME	400020.729	3756098.663 30.00
LOCATION	L0000761	VOLUME	400020.644	3756084.163 30.00
LOCATION	L0000762	VOLUME	400020.559	3756069.664 30.00
LOCATION	L0000763	VOLUME	400020.473	3756055.164 30.00
LOCATION	L0000764	VOLUME	400020.388	3756040.664 30.00
LOCATION	L0000765	VOLUME	400020.303	3756026.164 30.00
LOCATION	L0000766	VOLUME	400020.218	3756011.665 30.00
LOCATION	L0000767	VOLUME	400020.132	3755997.165 30.00
LOCATION	L0000768	VOLUME	400020.047	3755982.665 30.00
LOCATION	L0000769	VOLUME	400019.962	3755968.165 30.00
LOCATION	L0000770	VOLUME	400019.877	3755953.666 30.00
LOCATION	L0000771	VOLUME	400019.792	3755939.166 30.00
LOCATION	L0000772	VOLUME	400019.706	3755924.666 30.00
LOCATION	L0000773	VOLUME	400019.621	3755910.166 30.00
LOCATION	L0000774	VOLUME	400019.536	3755895.667 30.00
LOCATION	L0000775	VOLUME	400019.451	3755881.167 30.00
LOCATION	L0000776	VOLUME	400019.365	3755866.667 30.00
LOCATION	L0000777	VOLUME	400019.280	3755852.167 30.00
LOCATION	L0000778	VOLUME	400019.195	3755837.668 30.00
LOCATION	L0000779	VOLUME	400019.110	3755823.168 30.00
LOCATION	L0000780	VOLUME	400019.024	3755808.668 30.00
LOCATION	L0000781	VOLUME	400018.939	3755794.168 30.00
LOCATION	L0000782	VOLUME	400018.854	3755779.669 30.00
LOCATION	L0000783	VOLUME	400018.769	3755765.169 30.00
LOCATION	L0000784	VOLUME	400018.684	3755750.669 30.00
LOCATION	L0000785	VOLUME	400018.598	3755736.169 30.00
LOCATION	L0000786	VOLUME	400018.513	3755721.670 30.00
LOCATION	L0000787	VOLUME	400018.428	3755707.170 30.00
LOCATION	L0000788	VOLUME	400018.343	3755692.670 30.00
LOCATION	L0000789	VOLUME	400018.257	3755678.170 30.00
LOCATION	L0000790	VOLUME	400018.172	3755663.671 30.00
LOCATION	L0000791	VOLUME	400018.087	3755649.171 30.00
LOCATION	L0000792	VOLUME	400018.002	3755634.671 30.00
LOCATION	L0000793	VOLUME	400017.916	3755620.171 30.00
LOCATION	L0000794	VOLUME	400017.831	3755605.672 30.00
LOCATION	L0000795	VOLUME	400017.746	3755591.172 30.00

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   LOCATION L0000796     VOLUME   400017.661 3755576.672 30.00
   LOCATION L0000797     VOLUME   400017.576 3755562.172 30.00
   LOCATION L0000798     VOLUME   400017.490 3755547.673 30.00
   LOCATION L0000799     VOLUME   400017.405 3755533.173 30.00
   LOCATION L0000800     VOLUME   400017.320 3755518.673 30.00
   LOCATION L0000801     VOLUME   400017.235 3755504.173 30.00
   LOCATION L0000802     VOLUME   400017.149 3755489.674 30.00
   LOCATION L0000803     VOLUME   400017.064 3755475.174 30.00
** END OF LINE VOLUME SOURCE ID = SLINE7
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE8
** DESCRSRC OFF-SITE TRAVEL 50%
** PREFIX
** LENGTH OF SIDE = 14.50
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00002338
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 5
** 400100.898, 3756611.758, 30.00, 3.49, 6.74
** 399778.578, 3756779.182, 30.00, 3.49, 6.74
** 399480.175, 3756929.522, 30.00, 3.49, 6.74
** 399299.083, 3757022.915, 30.00, 3.49, 6.74
** 399017.765, 3757166.422, 30.00, 3.49, 6.74
** ----------------------------------------------------------------------
   LOCATION L0000804     VOLUME   400094.464 3756615.100 30.00
   LOCATION L0000805     VOLUME   400081.597 3756621.783 30.00
   LOCATION L0000806     VOLUME   400068.729 3756628.467 30.00
   LOCATION L0000807     VOLUME   400055.861 3756635.151 30.00
   LOCATION L0000808     VOLUME   400042.994 3756641.835 30.00
   LOCATION L0000809     VOLUME   400030.126 3756648.519 30.00
   LOCATION L0000810     VOLUME   400017.259 3756655.203 30.00
   LOCATION L0000811     VOLUME   400004.391 3756661.887 30.00
   LOCATION L0000812     VOLUME   399991.523 3756668.571 30.00
   LOCATION L0000813     VOLUME   399978.656 3756675.255 30.00
   LOCATION L0000814     VOLUME   399965.788 3756681.938 30.00
   LOCATION L0000815     VOLUME   399952.920 3756688.622 30.00
   LOCATION L0000816     VOLUME   399940.053 3756695.306 30.00
   LOCATION L0000817     VOLUME   399927.185 3756701.990 30.00
   LOCATION L0000818     VOLUME   399914.318 3756708.674 30.00
   LOCATION L0000819     VOLUME   399901.450 3756715.358 30.00
   LOCATION L0000820     VOLUME   399888.582 3756722.042 30.00
   LOCATION L0000821     VOLUME   399875.715 3756728.726 30.00
   LOCATION L0000822     VOLUME   399862.847 3756735.409 30.00
   LOCATION L0000823     VOLUME   399849.980 3756742.093 30.00
   LOCATION L0000824     VOLUME   399837.112 3756748.777 30.00
   LOCATION L0000825     VOLUME   399824.244 3756755.461 30.00
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LOCATION	L0000826	VOLUME	399811.377	3756762.145 30.00
LOCATION	L0000827	VOLUME	399798.509	3756768.829 30.00
LOCATION	L0000828	VOLUME	399785.641	3756775.513 30.00
LOCATION	L0000829	VOLUME	399772.737	3756782.125 30.00
LOCATION	L0000830	VOLUME	399759.788	3756788.649 30.00
LOCATION	L0000831	VOLUME	399746.838	3756795.173 30.00
LOCATION	L0000832	VOLUME	399733.889	3756801.697 30.00
LOCATION	L0000833	VOLUME	399720.939	3756808.221 30.00
LOCATION	L0000834	VOLUME	399707.990	3756814.745 30.00
LOCATION	L0000835	VOLUME	399695.041	3756821.269 30.00
LOCATION	L0000836	VOLUME	399682.091	3756827.793 30.00
LOCATION	L0000837	VOLUME	399669.142	3756834.317 30.00
LOCATION	L0000838	VOLUME	399656.193	3756840.842 30.00
LOCATION	L0000839	VOLUME	399643.243	3756847.366 30.00
LOCATION	L0000840	VOLUME	399630.294	3756853.890 30.00
LOCATION	L0000841	VOLUME	399617.345	3756860.414 30.00
LOCATION	L0000842	VOLUME	399604.395	3756866.938 30.00
LOCATION	L0000843	VOLUME	399591.446	3756873.462 30.00
LOCATION	L0000844	VOLUME	399578.496	3756879.986 30.00
LOCATION	L0000845	VOLUME	399565.547	3756886.510 30.00
LOCATION	L0000846	VOLUME	399552.598	3756893.034 30.00
LOCATION	L0000847	VOLUME	399539.648	3756899.559 30.00
LOCATION	L0000848	VOLUME	399526.699	3756906.083 30.00
LOCATION	L0000849	VOLUME	399513.750	3756912.607 30.00
LOCATION	L0000850	VOLUME	399500.800	3756919.131 30.00
LOCATION	L0000851	VOLUME	399487.851	3756925.655 30.00
LOCATION	L0000852	VOLUME	399474.927	3756932.229 30.00
LOCATION	L0000853	VOLUME	399462.040	3756938.875 30.00
LOCATION	L0000854	VOLUME	399449.153	3756945.521 30.00
LOCATION	L0000855	VOLUME	399436.266	3756952.167 30.00
LOCATION	L0000856	VOLUME	399423.378	3756958.814 30.00
LOCATION	L0000857	VOLUME	399410.491	3756965.460 30.00
LOCATION	L0000858	VOLUME	399397.604	3756972.106 30.00
LOCATION	L0000859	VOLUME	399384.717	3756978.752 30.00
LOCATION	L0000860	VOLUME	399371.830	3756985.398 30.00
LOCATION	L0000861	VOLUME	399358.943	3756992.045 30.00
LOCATION	L0000862	VOLUME	399346.056	3756998.691 30.00
LOCATION	L0000863	VOLUME	399333.168	3757005.337 30.00
LOCATION	L0000864	VOLUME	399320.281	3757011.983 30.00
LOCATION	L0000865	VOLUME	399307.394	3757018.629 30.00
LOCATION	L0000866	VOLUME	399294.497	3757025.255 30.00
LOCATION	L0000867	VOLUME	399281.580	3757031.844 30.00
LOCATION	L0000868	VOLUME	399268.664	3757038.433 30.00
LOCATION	L0000869	VOLUME	399255.747	3757045.022 30.00
LOCATION	L0000870	VOLUME	399242.831	3757051.611 30.00
LOCATION	L0000871	VOLUME	399229.914	3757058.200 30.00
LOCATION	L0000872	VOLUME	399216.998	3757064.789 30.00
LOCATION	L0000873	VOLUME	399204.081	3757071.378 30.00

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   LOCATION L0000874     VOLUME   399191.165 3757077.967 30.00
   LOCATION L0000875     VOLUME   399178.248 3757084.556 30.00
   LOCATION L0000876     VOLUME   399165.332 3757091.145 30.00
   LOCATION L0000877     VOLUME   399152.415 3757097.734 30.00
   LOCATION L0000878     VOLUME   399139.499 3757104.323 30.00
   LOCATION L0000879     VOLUME   399126.582 3757110.912 30.00
   LOCATION L0000880     VOLUME   399113.666 3757117.501 30.00
   LOCATION L0000881     VOLUME   399100.749 3757124.090 30.00
   LOCATION L0000882     VOLUME   399087.833 3757130.679 30.00
   LOCATION L0000883     VOLUME   399074.917 3757137.268 30.00
   LOCATION L0000884     VOLUME   399062.000 3757143.857 30.00
   LOCATION L0000885     VOLUME   399049.084 3757150.446 30.00
   LOCATION L0000886     VOLUME   399036.167 3757157.035 30.00
   LOCATION L0000887     VOLUME   399023.251 3757163.624 30.00
** END OF LINE VOLUME SOURCE ID = SLINE8
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE9
** DESCRSRC OFF-SITE TRAVEL 20%
** PREFIX
** LENGTH OF SIDE = 14.50
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001728
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 10
** 400129.607, 3756597.372, 30.00, 3.49, 6.74
** 400347.928, 3756488.211, 30.00, 3.49, 6.74
** 400529.327, 3756395.104, 30.00, 3.49, 6.74
** 400803.833, 3756258.653, 30.00, 3.49, 6.74
** 400860.019, 3756236.179, 30.00, 3.49, 6.74
** 401028.576, 3756215.310, 30.51, 3.49, 6.74
** 401102.419, 3756220.126, 30.91, 3.49, 6.74
** 401476.455, 3756216.915, 32.67, 3.49, 6.74
** 401913.097, 3756213.705, 34.21, 3.49, 6.74
** 402291.948, 3756213.705, 36.16, 3.49, 6.74
** ----------------------------------------------------------------------
   LOCATION L0000888     VOLUME   400136.091 3756594.130 30.00
   LOCATION L0000889     VOLUME   400149.060 3756587.645 30.00
   LOCATION L0000890     VOLUME   400162.030 3756581.160 30.00
   LOCATION L0000891     VOLUME   400174.999 3756574.676 30.00
   LOCATION L0000892     VOLUME   400187.968 3756568.191 30.00
   LOCATION L0000893     VOLUME   400200.937 3756561.707 30.00
   LOCATION L0000894     VOLUME   400213.906 3756555.222 30.00
   LOCATION L0000895     VOLUME   400226.876 3756548.737 30.00
   LOCATION L0000896     VOLUME   400239.845 3756542.253 30.00
   LOCATION L0000897     VOLUME   400252.814 3756535.768 30.00
   LOCATION L0000898     VOLUME   400265.783 3756529.284 30.00
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LOCATION L0000899     VOLUME   400278.752 3756522.799 30.00
LOCATION L0000900     VOLUME   400291.722 3756516.314 30.00
LOCATION L0000901     VOLUME   400304.691 3756509.830 30.00
LOCATION L0000902     VOLUME   400317.660 3756503.345 30.00
LOCATION L0000903     VOLUME   400330.629 3756496.861 30.00
LOCATION L0000904     VOLUME   400343.598 3756490.376 30.00
LOCATION L0000905     VOLUME   400356.521 3756483.800 30.00
LOCATION L0000906     VOLUME   400369.421 3756477.179 30.00
LOCATION L0000907     VOLUME   400382.321 3756470.558 30.00
LOCATION L0000908     VOLUME   400395.221 3756463.937 30.00
LOCATION L0000909     VOLUME   400408.121 3756457.316 30.00
LOCATION L0000910     VOLUME   400421.021 3756450.694 30.00
LOCATION L0000911     VOLUME   400433.921 3756444.073 30.00
LOCATION L0000912     VOLUME   400446.821 3756437.452 30.00
LOCATION L0000913     VOLUME   400459.721 3756430.831 30.00
LOCATION L0000914     VOLUME   400472.621 3756424.209 30.00
LOCATION L0000915     VOLUME   400485.521 3756417.588 30.00
LOCATION L0000916     VOLUME   400498.421 3756410.967 30.00
LOCATION L0000917     VOLUME   400511.321 3756404.346 30.00
LOCATION L0000918     VOLUME   400524.221 3756397.724 30.00
LOCATION L0000919     VOLUME   400537.172 3756391.204 30.00
LOCATION L0000920     VOLUME   400550.156 3756384.750 30.00
LOCATION L0000921     VOLUME   400563.141 3756378.296 30.00
LOCATION L0000922     VOLUME   400576.125 3756371.842 30.00
LOCATION L0000923     VOLUME   400589.109 3756365.387 30.00
LOCATION L0000924     VOLUME   400602.094 3756358.933 30.00
LOCATION L0000925     VOLUME   400615.078 3756352.479 30.00
LOCATION L0000926     VOLUME   400628.063 3756346.025 30.00
LOCATION L0000927     VOLUME   400641.047 3756339.571 30.00
LOCATION L0000928     VOLUME   400654.031 3756333.116 30.00
LOCATION L0000929     VOLUME   400667.016 3756326.662 30.00
LOCATION L0000930     VOLUME   400680.000 3756320.208 30.00
LOCATION L0000931     VOLUME   400692.984 3756313.754 30.00
LOCATION L0000932     VOLUME   400705.969 3756307.299 30.00
LOCATION L0000933     VOLUME   400718.953 3756300.845 30.00
LOCATION L0000934     VOLUME   400731.937 3756294.391 30.00
LOCATION L0000935     VOLUME   400744.922 3756287.937 30.00
LOCATION L0000936     VOLUME   400757.906 3756281.483 30.00
LOCATION L0000937     VOLUME   400770.890 3756275.028 30.00
LOCATION L0000938     VOLUME   400783.875 3756268.574 30.00
LOCATION L0000939     VOLUME   400796.859 3756262.120 30.00
LOCATION L0000940     VOLUME   400810.065 3756256.161 30.00
LOCATION L0000941     VOLUME   400823.528 3756250.775 30.00
LOCATION L0000942     VOLUME   400836.991 3756245.390 30.00
LOCATION L0000943     VOLUME   400850.454 3756240.005 30.00
LOCATION L0000944     VOLUME   400864.185 3756235.663 30.00
LOCATION L0000945     VOLUME   400878.575 3756233.882 30.00
LOCATION L0000946     VOLUME   400892.965 3756232.100 30.02
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LOCATION L0000947     VOLUME   400907.355 3756230.318 30.07
LOCATION L0000948     VOLUME   400921.745 3756228.537 30.11
LOCATION L0000949     VOLUME   400936.136 3756226.755 30.15
LOCATION L0000950     VOLUME   400950.526 3756224.973 30.17
LOCATION L0000951     VOLUME   400964.916 3756223.192 30.20
LOCATION L0000952     VOLUME   400979.306 3756221.410 30.34
LOCATION L0000953     VOLUME   400993.696 3756219.629 30.48
LOCATION L0000954     VOLUME   401008.086 3756217.847 30.63
LOCATION L0000955     VOLUME   401022.476 3756216.065 30.79
LOCATION L0000956     VOLUME   401036.912 3756215.854 30.95
LOCATION L0000957     VOLUME   401051.381 3756216.797 31.00
LOCATION L0000958     VOLUME   401065.851 3756217.741 31.00
LOCATION L0000959     VOLUME   401080.320 3756218.685 31.00
LOCATION L0000960     VOLUME   401094.789 3756219.628 31.00
LOCATION L0000961     VOLUME   401109.273 3756220.067 31.00
LOCATION L0000962     VOLUME   401123.772 3756219.943 31.01
LOCATION L0000963     VOLUME   401138.272 3756219.818 31.05
LOCATION L0000964     VOLUME   401152.771 3756219.694 31.08
LOCATION L0000965     VOLUME   401167.271 3756219.569 31.11
LOCATION L0000966     VOLUME   401181.770 3756219.445 31.15
LOCATION L0000967     VOLUME   401196.269 3756219.320 31.19
LOCATION L0000968     VOLUME   401210.769 3756219.196 31.34
LOCATION L0000969     VOLUME   401225.268 3756219.072 31.50
LOCATION L0000970     VOLUME   401239.768 3756218.947 31.65
LOCATION L0000971     VOLUME   401254.267 3756218.823 31.81
LOCATION L0000972     VOLUME   401268.767 3756218.698 31.96
LOCATION L0000973     VOLUME   401283.266 3756218.574 32.03
LOCATION L0000974     VOLUME   401297.766 3756218.449 32.06
LOCATION L0000975     VOLUME   401312.265 3756218.325 32.09
LOCATION L0000976     VOLUME   401326.765 3756218.200 32.13
LOCATION L0000977     VOLUME   401341.264 3756218.076 32.16
LOCATION L0000978     VOLUME   401355.764 3756217.951 32.18
LOCATION L0000979     VOLUME   401370.263 3756217.827 32.18
LOCATION L0000980     VOLUME   401384.762 3756217.702 32.18
LOCATION L0000981     VOLUME   401399.262 3756217.578 32.18
LOCATION L0000982     VOLUME   401413.761 3756217.454 32.18
LOCATION L0000983     VOLUME   401428.261 3756217.329 32.20
LOCATION L0000984     VOLUME   401442.760 3756217.205 32.36
LOCATION L0000985     VOLUME   401457.260 3756217.080 32.51
LOCATION L0000986     VOLUME   401471.759 3756216.956 32.66
LOCATION L0000987     VOLUME   401486.259 3756216.843 32.82
LOCATION L0000988     VOLUME   401500.758 3756216.737 32.97
LOCATION L0000989     VOLUME   401515.258 3756216.630 33.00
LOCATION L0000990     VOLUME   401529.758 3756216.523 33.00
LOCATION L0000991     VOLUME   401544.257 3756216.417 33.00
LOCATION L0000992     VOLUME   401558.757 3756216.310 33.00
LOCATION L0000993     VOLUME   401573.256 3756216.204 33.00
LOCATION L0000994     VOLUME   401587.756 3756216.097 33.02
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LOCATION L0000995     VOLUME   401602.256 3756215.990 33.05
LOCATION L0000996     VOLUME   401616.755 3756215.884 33.09
LOCATION L0000997     VOLUME   401631.255 3756215.777 33.12
LOCATION L0000998     VOLUME   401645.755 3756215.671 33.16
LOCATION L0000999     VOLUME   401660.254 3756215.564 33.22
LOCATION L0001000     VOLUME   401674.754 3756215.457 33.37
LOCATION L0001001     VOLUME   401689.253 3756215.351 33.53
LOCATION L0001002     VOLUME   401703.753 3756215.244 33.68
LOCATION L0001003     VOLUME   401718.253 3756215.137 33.83
LOCATION L0001004     VOLUME   401732.752 3756215.031 33.98
LOCATION L0001005     VOLUME   401747.252 3756214.924 34.00
LOCATION L0001006     VOLUME   401761.751 3756214.818 34.00
LOCATION L0001007     VOLUME   401776.251 3756214.711 34.00
LOCATION L0001008     VOLUME   401790.751 3756214.604 34.00
LOCATION L0001009     VOLUME   401805.250 3756214.498 34.00
LOCATION L0001010     VOLUME   401819.750 3756214.391 34.02
LOCATION L0001011     VOLUME   401834.249 3756214.285 34.06
LOCATION L0001012     VOLUME   401848.749 3756214.178 34.09
LOCATION L0001013     VOLUME   401863.249 3756214.071 34.13
LOCATION L0001014     VOLUME   401877.748 3756213.965 34.17
LOCATION L0001015     VOLUME   401892.248 3756213.858 34.24
LOCATION L0001016     VOLUME   401906.747 3756213.751 34.39
LOCATION L0001017     VOLUME   401921.247 3756213.705 34.54
LOCATION L0001018     VOLUME   401935.747 3756213.705 34.69
LOCATION L0001019     VOLUME   401950.247 3756213.705 34.84
LOCATION L0001020     VOLUME   401964.747 3756213.705 34.99
LOCATION L0001021     VOLUME   401979.247 3756213.705 35.00
LOCATION L0001022     VOLUME   401993.747 3756213.705 35.00
LOCATION L0001023     VOLUME   402008.247 3756213.705 35.00
LOCATION L0001024     VOLUME   402022.747 3756213.705 35.00
LOCATION L0001025     VOLUME   402037.247 3756213.705 35.00
LOCATION L0001026     VOLUME   402051.747 3756213.705 35.12
LOCATION L0001027     VOLUME   402066.247 3756213.705 35.31
LOCATION L0001028     VOLUME   402080.747 3756213.705 35.50
LOCATION L0001029     VOLUME   402095.247 3756213.705 35.68
LOCATION L0001030     VOLUME   402109.747 3756213.705 35.87
LOCATION L0001031     VOLUME   402124.247 3756213.705 36.01
LOCATION L0001032     VOLUME   402138.747 3756213.705 36.06
LOCATION L0001033     VOLUME   402153.247 3756213.705 36.10
LOCATION L0001034     VOLUME   402167.747 3756213.705 36.14
LOCATION L0001035     VOLUME   402182.247 3756213.705 36.19
LOCATION L0001036     VOLUME   402196.747 3756213.705 36.23
LOCATION L0001037     VOLUME   402211.247 3756213.705 36.23
LOCATION L0001038     VOLUME   402225.747 3756213.705 36.23
LOCATION L0001039     VOLUME   402240.247 3756213.705 36.23
LOCATION L0001040     VOLUME   402254.747 3756213.705 36.24
LOCATION L0001041     VOLUME   402269.247 3756213.705 36.24
LOCATION L0001042     VOLUME   402283.747 3756213.705 36.34
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** END OF LINE VOLUME SOURCE ID = SLINE9
** SOURCE PARAMETERS **
** LINE VOLUME SOURCE ID = SLINE1
   SRCPARAM L0000643     0.000003752      3.49      4.00      3.25
   SRCPARAM L0000644     0.000003752      3.49      4.00      3.25
   SRCPARAM L0000645     0.000003752      3.49      4.00      3.25
   SRCPARAM L0000646     0.000003752      3.49      4.00      3.25
   SRCPARAM L0000647     0.000003752      3.49      4.00      3.25
   SRCPARAM L0000648     0.000003752      3.49      4.00      3.25
   SRCPARAM L0000649     0.000003752      3.49      4.00      3.25
   SRCPARAM L0000650     0.000003752      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE2
   SRCPARAM L0000651     0.000004063      3.49      4.00      3.25
   SRCPARAM L0000652     0.000004063      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE3
   SRCPARAM L0000653     0.000004536      3.49      4.00      3.25
   SRCPARAM L0000654     0.000004536      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE4
   SRCPARAM L0000655     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000656     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000657     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000658     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000659     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000660     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000661     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000662     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000663     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000664     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000665     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000666     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000667     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000668     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000669     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000670     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000671     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000672     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000673     0.000000514      3.49      4.00      3.25
   SRCPARAM L0000674     0.000000514      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE5
   SRCPARAM L0000675     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000676     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000677     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000678     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000679     0.0000002987      3.49      4.00      3.25
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   SRCPARAM L0000680     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000681     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000682     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000683     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000684     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000685     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000686     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000687     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000688     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000689     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000690     0.0000002987      3.49      4.00      3.25
   SRCPARAM L0000691     0.0000002987      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE6
   SRCPARAM L0000692     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000693     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000694     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000695     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000696     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000697     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000698     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000699     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000700     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000701     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000702     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000703     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000704     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000705     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000706     0.0000006214      3.49      7.44      3.25
   SRCPARAM L0000707     0.0000006214      3.49      7.44      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE7
   SRCPARAM L0000724     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000725     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000726     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000727     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000728     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000729     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000730     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000731     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000732     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000733     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000734     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000735     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000736     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000737     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000738     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000739     0.0000001667      3.49      6.74      3.25
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SRCPARAM L0000740     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000741     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000742     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000743     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000744     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000745     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000746     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000747     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000748     0.0000001667      3.49      6.74      3.25
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SRCPARAM L0000750     0.0000001667      3.49      6.74      3.25
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SRCPARAM L0000757     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000758     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000759     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000760     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000761     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000762     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000763     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000764     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000765     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000766     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000767     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000768     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000769     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000770     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000771     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000772     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000773     0.0000001667      3.49      6.74      3.25
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SRCPARAM L0000775     0.0000001667      3.49      6.74      3.25
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SRCPARAM L0000782     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000783     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000784     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000785     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000786     0.0000001667      3.49      6.74      3.25
SRCPARAM L0000787     0.0000001667      3.49      6.74      3.25
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   SRCPARAM L0000788     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000789     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000790     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000791     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000792     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000793     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000794     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000795     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000796     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000797     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000798     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000799     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000800     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000801     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000802     0.0000001667      3.49      6.74      3.25
   SRCPARAM L0000803     0.0000001667      3.49      6.74      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE8
   SRCPARAM L0000804     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000805     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000806     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000807     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000808     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000809     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000810     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000811     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000812     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000813     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000814     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000815     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000816     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000817     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000818     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000819     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000820     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000821     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000822     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000823     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000824     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000825     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000826     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000827     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000828     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000829     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000830     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000831     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000832     0.0000002783      3.49      6.74      3.25
   SRCPARAM L0000833     0.0000002783      3.49      6.74      3.25
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SRCPARAM L0000837     0.0000002783      3.49      6.74      3.25
SRCPARAM L0000838     0.0000002783      3.49      6.74      3.25
SRCPARAM L0000839     0.0000002783      3.49      6.74      3.25
SRCPARAM L0000840     0.0000002783      3.49      6.74      3.25
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SRCPARAM L0000847     0.0000002783      3.49      6.74      3.25
SRCPARAM L0000848     0.0000002783      3.49      6.74      3.25
SRCPARAM L0000849     0.0000002783      3.49      6.74      3.25
SRCPARAM L0000850     0.0000002783      3.49      6.74      3.25
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SRCPARAM L0000866     0.0000002783      3.49      6.74      3.25
SRCPARAM L0000867     0.0000002783      3.49      6.74      3.25
SRCPARAM L0000868     0.0000002783      3.49      6.74      3.25
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SRCPARAM L0000878     0.0000002783      3.49      6.74      3.25
SRCPARAM L0000879     0.0000002783      3.49      6.74      3.25
SRCPARAM L0000880     0.0000002783      3.49      6.74      3.25
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   SRCPARAM L0000887     0.0000002783      3.49      6.74      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE9
   SRCPARAM L0000888     0.0000001115      3.49      6.74      3.25
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   SRCPARAM L0000907     0.0000001115      3.49      6.74      3.25
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   SRCPARAM L0000912     0.0000001115      3.49      6.74      3.25
   SRCPARAM L0000913     0.0000001115      3.49      6.74      3.25
   SRCPARAM L0000914     0.0000001115      3.49      6.74      3.25
   SRCPARAM L0000915     0.0000001115      3.49      6.74      3.25
   SRCPARAM L0000916     0.0000001115      3.49      6.74      3.25
   SRCPARAM L0000917     0.0000001115      3.49      6.74      3.25
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SRCPARAM L0001023     0.0000001115      3.49      6.74      3.25
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   SRCPARAM L0001031     0.0000001115      3.49      6.74      3.25
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   SRCPARAM L0001033     0.0000001115      3.49      6.74      3.25
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   SRCPARAM L0001041     0.0000001115      3.49      6.74      3.25
   SRCPARAM L0001042     0.0000001115      3.49      6.74      3.25
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD RECEPTOR PATHWAY
**************************************
**
**
RE STARTING
   INCLUDED "12415 HRA.ROU"
RE FINISHED
**
**************************************
** AERMOD METEOROLOGY PATHWAY
**************************************
**
**
ME STARTING
   SURFFILE PICO_V9_ADJU\PICO_V9.SFC
   PROFFILE PICO_V9_ADJU\PICO_V9.PFL
   SURFDATA 3166 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD OUTPUT PATHWAY
************************************
**
**
OU STARTING
** AUTO-GENERATED PLOTFILES
   PLOTFILE   ANNUAL ALL "12415 HRA.AD\AN00GALL.PLT" 31
   SUMMFILE "12415 HRA.SUM"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    1005       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
 ME W187    1005       MEOPEN: ADJ_U* Option for Low Winds used in AERMET


 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

 *** AERMOD - VERSION 16216r ***   *** C:\LAKES\AERMOD VIEW\12415 HRA\12415
HRA.ISC                          ***        08/25/19
 *** AERMET - VERSION  16216 ***   ***
                         ***        10:48:52

                                    PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                             ***     MODEL SETUP OPTIONS SUMMARY
  ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.
```

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  --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   384 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
         1. Stack-tip Downwash.
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* BETA option for SBL in AERMET
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  DPM

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:    384 Source(s);       1 Source Group(s); and      72
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    384 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
```

Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing
Hours
b for Both Calm
and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 442.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.7 MB of RAM.

**Detailed Error/Message File: 12415 HRA.ERR

**File for Summary of Results: 12415 HRA.SUM

*** AERMOD - VERSION 16216r *** *** C:\LAKES\AERMOD VIEW\12415 HRA\12415
HRA.ISC *** 08/25/19
*** AERMET - VERSION 16216 *** ***
*** 10:48:52

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000643	0	0.37520E-05	400238.3	3756681.9	30.0	3.49	4.00	3.25	YES	
L0000644	0	0.37520E-05	400246.3	3756678.8	30.0	3.49	4.00	3.25	YES	
L0000645	0	0.37520E-05	400254.4	3756675.8	30.0	3.49	4.00	3.25	YES	

L0000646	0	0.37520E-05	400262.4	3756672.7	30.0	3.49	4.00	3.25 YES
L0000647	0	0.37520E-05	400270.4	3756669.7	30.0	3.49	4.00	3.25 YES
L0000648	0	0.37520E-05	400278.5	3756666.6	30.0	3.49	4.00	3.25 YES
L0000649	0	0.37520E-05	400286.5	3756663.5	30.0	3.49	4.00	3.25 YES
L0000650	0	0.37520E-05	400294.5	3756660.5	30.0	3.49	4.00	3.25 YES
L0000651	0	0.40630E-05	400279.5	3756810.9	30.0	3.49	4.00	3.25 YES
L0000652	0	0.40630E-05	400276.6	3756802.8	30.0	3.49	4.00	3.25 YES
L0000653	0	0.45360E-05	400329.2	3756792.6	30.0	3.49	4.00	3.25 YES
L0000654	0	0.45360E-05	400326.3	3756784.5	30.0	3.49	4.00	3.25 YES
L0000655	0	0.51400E-06	400170.9	3756685.7	30.0	3.49	4.00	3.25 YES
L0000656	0	0.51400E-06	400179.0	3756682.7	30.0	3.49	4.00	3.25 YES
L0000657	0	0.51400E-06	400187.1	3756679.8	30.0	3.49	4.00	3.25 YES
L0000658	0	0.51400E-06	400195.1	3756676.9	30.0	3.49	4.00	3.25 YES
L0000659	0	0.51400E-06	400203.2	3756674.0	30.0	3.49	4.00	3.25 YES
L0000660	0	0.51400E-06	400211.3	3756671.1	30.0	3.49	4.00	3.25 YES
L0000661	0	0.51400E-06	400219.4	3756668.2	30.0	3.49	4.00	3.25 YES
L0000662	0	0.51400E-06	400227.5	3756665.3	30.0	3.49	4.00	3.25 YES
L0000663	0	0.51400E-06	400235.5	3756662.3	30.0	3.49	4.00	3.25 YES
L0000664	0	0.51400E-06	400243.6	3756659.4	30.0	3.49	4.00	3.25 YES
L0000665	0	0.51400E-06	400251.7	3756656.5	30.0	3.49	4.00	3.25 YES
L0000666	0	0.51400E-06	400259.8	3756653.6	30.0	3.49	4.00	3.25 YES
L0000667	0	0.51400E-06	400267.9	3756650.7	30.0	3.49	4.00	3.25 YES
L0000668	0	0.51400E-06	400275.9	3756647.8	30.0	3.49	4.00	3.25 YES
L0000669	0	0.51400E-06	400284.0	3756644.9	30.0	3.49	4.00	3.25 YES

 L0000670   0   0.51400E-06 400292.1 3756641.9   30.0   3.49   4.00
3.25   YES
 L0000671   0   0.51400E-06 400300.2 3756639.0   30.0   3.49   4.00
3.25   YES
 L0000672   0   0.51400E-06 400308.3 3756636.1   30.0   3.49   4.00
3.25   YES
 L0000673   0   0.51400E-06 400316.3 3756633.2   30.0   3.49   4.00
3.25   YES
 L0000674   0   0.51400E-06 400324.4 3756630.3   30.0   3.49   4.00
3.25   YES
 L0000675   0   0.29870E-06 400234.5 3756839.1   30.0   3.49   4.00
3.25   YES
 L0000676   0   0.29870E-06 400242.5 3756835.9   30.0   3.49   4.00
3.25   YES
 L0000677   0   0.29870E-06 400250.5 3756832.7   30.0   3.49   4.00
3.25   YES
 L0000678   0   0.29870E-06 400258.4 3756829.5   30.0   3.49   4.00
3.25   YES
 L0000679   0   0.29870E-06 400266.4 3756826.3   30.0   3.49   4.00
3.25   YES
 L0000680   0   0.29870E-06 400274.4 3756823.1   30.0   3.49   4.00
3.25   YES
 L0000681   0   0.29870E-06 400282.3 3756819.9   30.0   3.49   4.00
3.25   YES
 L0000682   0   0.29870E-06 400290.3 3756816.6   30.0   3.49   4.00
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- - - - - - - - - - - - - - - - - - - -

 L0000683   0   0.29870E-06 400298.3 3756813.4   30.0   3.49   4.00
3.25   YES

L0000684	0	0.29870E-06	400306.2	3756810.2	30.0	3.49	4.00	3.25 YES
L0000685	0	0.29870E-06	400306.9	3756803.8	30.0	3.49	4.00	3.25 YES
L0000686	0	0.29870E-06	400303.7	3756795.8	30.0	3.49	4.00	3.25 YES
L0000687	0	0.29870E-06	400300.6	3756787.8	30.0	3.49	4.00	3.25 YES
L0000688	0	0.29870E-06	400297.4	3756779.8	30.0	3.49	4.00	3.25 YES
L0000689	0	0.29870E-06	400294.2	3756771.8	30.0	3.49	4.00	3.25 YES
L0000690	0	0.29870E-06	400291.0	3756763.9	30.0	3.49	4.00	3.25 YES
L0000691	0	0.29870E-06	400287.8	3756755.9	30.0	3.49	4.00	3.25 YES
L0000692	0	0.62140E-06	400213.9	3756837.8	30.0	3.49	7.44	3.25 YES
L0000693	0	0.62140E-06	400208.5	3756822.8	30.0	3.49	7.44	3.25 YES
L0000694	0	0.62140E-06	400203.2	3756807.7	30.0	3.49	7.44	3.25 YES
L0000695	0	0.62140E-06	400197.1	3756792.9	30.0	3.49	7.44	3.25 YES
L0000696	0	0.62140E-06	400190.6	3756778.3	30.0	3.49	7.44	3.25 YES
L0000697	0	0.62140E-06	400184.1	3756763.6	30.0	3.49	7.44	3.25 YES
L0000698	0	0.62140E-06	400177.7	3756749.0	30.0	3.49	7.44	3.25 YES
L0000699	0	0.62140E-06	400171.5	3756734.2	30.0	3.49	7.44	3.25 YES
L0000700	0	0.62140E-06	400165.5	3756719.4	30.0	3.49	7.44	3.25 YES
L0000701	0	0.62140E-06	400159.5	3756704.6	30.0	3.49	7.44	3.25 YES
L0000702	0	0.62140E-06	400153.4	3756689.8	30.0	3.49	7.44	3.25 YES
L0000703	0	0.62140E-06	400147.4	3756674.9	30.0	3.49	7.44	3.25 YES
L0000704	0	0.62140E-06	400141.4	3756660.1	30.0	3.49	7.44	3.25 YES
L0000705	0	0.62140E-06	400135.4	3756645.3	30.0	3.49	7.44	3.25 YES
L0000706	0	0.62140E-06	400129.4	3756630.5	30.0	3.49	7.44	3.25 YES
L0000707	0	0.62140E-06	400123.3	3756615.6	30.0	3.49	7.44	3.25 YES

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 L0000724         0   0.16670E-06  400116.7 3756601.8    30.0     3.49     6.74
3.25     YES
 L0000725         0   0.16670E-06  400110.5 3756588.8    30.0     3.49     6.74
3.25     YES
 L0000726         0   0.16670E-06  400104.2 3756575.7    30.0     3.49     6.74
3.25     YES
 L0000727         0   0.16670E-06  400098.0 3756562.6    30.0     3.49     6.74
3.25     YES
 L0000728         0   0.16670E-06  400092.0 3756549.4    30.0     3.49     6.74
3.25     YES
 L0000729         0   0.16670E-06  400086.3 3756536.0    30.0     3.49     6.74
3.25     YES
 L0000730         0   0.16670E-06  400080.7 3756522.7    30.0     3.49     6.74
3.25     YES
 L0000731         0   0.16670E-06  400075.1 3756509.3    30.0     3.49     6.74
3.25     YES
 L0000732         0   0.16670E-06  400069.4 3756496.0    30.0     3.49     6.74
3.25     YES
 L0000733         0   0.16670E-06  400063.7 3756482.6    30.0     3.49     6.74
3.25     YES
 L0000734         0   0.16670E-06  400058.0 3756469.3    30.0     3.49     6.74
3.25     YES
 L0000735         0   0.16670E-06  400052.3 3756455.9    30.0     3.49     6.74
3.25     YES
 L0000736         0   0.16670E-06  400046.6 3756442.6    30.0     3.49     6.74
3.25     YES
 L0000737         0   0.16670E-06  400040.9 3756429.3    30.0     3.49     6.74
3.25     YES
 L0000738         0   0.16670E-06  400035.2 3756416.0    30.0     3.49     6.74
3.25     YES
↟ *** AERMOD - VERSION 16216r ***   *** C:\LAKES\AERMOD VIEW\12415 HRA\12415
HRA.ISC                          ***        08/25/19
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:48:52

                                  PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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L0000739	0	0.16670E-06	400029.9	3756402.5	30.0	3.49	6.74	3.25	YES
L0000740	0	0.16670E-06	400027.6	3756388.2	30.0	3.49	6.74	3.25	YES
L0000741	0	0.16670E-06	400025.2	3756373.9	30.0	3.49	6.74	3.25	YES
L0000742	0	0.16670E-06	400022.9	3756359.6	30.0	3.49	6.74	3.25	YES
L0000743	0	0.16670E-06	400022.3	3756345.1	30.0	3.49	6.74	3.25	YES
L0000744	0	0.16670E-06	400021.8	3756330.6	30.0	3.49	6.74	3.25	YES
L0000745	0	0.16670E-06	400021.2	3756316.1	30.0	3.49	6.74	3.25	YES
L0000746	0	0.16670E-06	400020.6	3756301.6	30.0	3.49	6.74	3.25	YES
L0000747	0	0.16670E-06	400020.1	3756287.1	30.0	3.49	6.74	3.25	YES
L0000748	0	0.16670E-06	400019.5	3756272.7	30.0	3.49	6.74	3.25	YES
L0000749	0	0.16670E-06	400019.6	3756258.2	30.0	3.49	6.74	3.25	YES
L0000750	0	0.16670E-06	400019.7	3756243.7	30.0	3.49	6.74	3.25	YES
L0000751	0	0.16670E-06	400019.9	3756229.2	30.0	3.49	6.74	3.25	YES
L0000752	0	0.16670E-06	400020.0	3756214.7	30.0	3.49	6.74	3.25	YES
L0000753	0	0.16670E-06	400020.2	3756200.2	30.0	3.49	6.74	3.25	YES
L0000754	0	0.16670E-06	400020.3	3756185.7	30.0	3.49	6.74	3.25	YES
L0000755	0	0.16670E-06	400020.5	3756171.2	30.0	3.49	6.74	3.25	YES
L0000756	0	0.16670E-06	400020.6	3756156.7	30.0	3.49	6.74	3.25	YES
L0000757	0	0.16670E-06	400020.8	3756142.2	30.0	3.49	6.74	3.25	YES
L0000758	0	0.16670E-06	400020.9	3756127.7	30.0	3.49	6.74	3.25	YES
L0000759	0	0.16670E-06	400020.8	3756113.2	30.0	3.49	6.74	3.25	YES
L0000760	0	0.16670E-06	400020.7	3756098.7	30.0	3.49	6.74	3.25	YES
L0000761	0	0.16670E-06	400020.6	3756084.2	30.0	3.49	6.74	3.25	YES

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 L0000762         0   0.16670E-06  400020.6 3756069.7    30.0     3.49     6.74
3.25     YES
 L0000763         0   0.16670E-06  400020.5 3756055.2    30.0     3.49     6.74
3.25     YES
 L0000764         0   0.16670E-06  400020.4 3756040.7    30.0     3.49     6.74
3.25     YES
 L0000765         0   0.16670E-06  400020.3 3756026.2    30.0     3.49     6.74
3.25     YES
 L0000766         0   0.16670E-06  400020.2 3756011.7    30.0     3.49     6.74
3.25     YES
 L0000767         0   0.16670E-06  400020.1 3755997.2    30.0     3.49     6.74
3.25     YES
 L0000768         0   0.16670E-06  400020.0 3755982.7    30.0     3.49     6.74
3.25     YES
 L0000769         0   0.16670E-06  400020.0 3755968.2    30.0     3.49     6.74
3.25     YES
 L0000770         0   0.16670E-06  400019.9 3755953.7    30.0     3.49     6.74
3.25     YES
 L0000771         0   0.16670E-06  400019.8 3755939.2    30.0     3.49     6.74
3.25     YES
 L0000772         0   0.16670E-06  400019.7 3755924.7    30.0     3.49     6.74
3.25     YES
 L0000773         0   0.16670E-06  400019.6 3755910.2    30.0     3.49     6.74
3.25     YES
 L0000774         0   0.16670E-06  400019.5 3755895.7    30.0     3.49     6.74
3.25     YES
 L0000775         0   0.16670E-06  400019.5 3755881.2    30.0     3.49     6.74
3.25     YES
 L0000776         0   0.16670E-06  400019.4 3755866.7    30.0     3.49     6.74
3.25     YES
 L0000777         0   0.16670E-06  400019.3 3755852.2    30.0     3.49     6.74
3.25     YES
 L0000778         0   0.16670E-06  400019.2 3755837.7    30.0     3.49     6.74
3.25     YES
```


 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT.	URBAN	EMISSION RATE

SZ	SOURCE ID	SCALAR CATS.	VARY BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
	L0000779	0	0.16670E-06	400019.1	3755823.2	30.0	3.49	6.74	3.25	YES
	L0000780	0	0.16670E-06	400019.0	3755808.7	30.0	3.49	6.74	3.25	YES
	L0000781	0	0.16670E-06	400018.9	3755794.2	30.0	3.49	6.74	3.25	YES
	L0000782	0	0.16670E-06	400018.9	3755779.7	30.0	3.49	6.74	3.25	YES
	L0000783	0	0.16670E-06	400018.8	3755765.2	30.0	3.49	6.74	3.25	YES
	L0000784	0	0.16670E-06	400018.7	3755750.7	30.0	3.49	6.74	3.25	YES
	L0000785	0	0.16670E-06	400018.6	3755736.2	30.0	3.49	6.74	3.25	YES
	L0000786	0	0.16670E-06	400018.5	3755721.7	30.0	3.49	6.74	3.25	YES
	L0000787	0	0.16670E-06	400018.4	3755707.2	30.0	3.49	6.74	3.25	YES
	L0000788	0	0.16670E-06	400018.3	3755692.7	30.0	3.49	6.74	3.25	YES
	L0000789	0	0.16670E-06	400018.3	3755678.2	30.0	3.49	6.74	3.25	YES
	L0000790	0	0.16670E-06	400018.2	3755663.7	30.0	3.49	6.74	3.25	YES
	L0000791	0	0.16670E-06	400018.1	3755649.2	30.0	3.49	6.74	3.25	YES
	L0000792	0	0.16670E-06	400018.0	3755634.7	30.0	3.49	6.74	3.25	YES
	L0000793	0	0.16670E-06	400017.9	3755620.2	30.0	3.49	6.74	3.25	YES
	L0000794	0	0.16670E-06	400017.8	3755605.7	30.0	3.49	6.74	3.25	YES
	L0000795	0	0.16670E-06	400017.7	3755591.2	30.0	3.49	6.74	3.25	YES
	L0000796	0	0.16670E-06	400017.7	3755576.7	30.0	3.49	6.74	3.25	YES
	L0000797	0	0.16670E-06	400017.6	3755562.2	30.0	3.49	6.74	3.25	YES
	L0000798	0	0.16670E-06	400017.5	3755547.7	30.0	3.49	6.74	3.25	YES
	L0000799	0	0.16670E-06	400017.4	3755533.2	30.0	3.49	6.74	3.25	YES

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 L0000800         0   0.16670E-06  400017.3 3755518.7    30.0     3.49     6.74
3.25     YES
 L0000801         0   0.16670E-06  400017.2 3755504.2    30.0     3.49     6.74
3.25     YES
 L0000802         0   0.16670E-06  400017.1 3755489.7    30.0     3.49     6.74
3.25     YES
 L0000803         0   0.16670E-06  400017.1 3755475.2    30.0     3.49     6.74
3.25     YES
 L0000804         0   0.27830E-06  400094.5 3756615.1    30.0     3.49     6.74
3.25     YES
 L0000805         0   0.27830E-06  400081.6 3756621.8    30.0     3.49     6.74
3.25     YES
 L0000806         0   0.27830E-06  400068.7 3756628.5    30.0     3.49     6.74
3.25     YES
 L0000807         0   0.27830E-06  400055.9 3756635.2    30.0     3.49     6.74
3.25     YES
 L0000808         0   0.27830E-06  400043.0 3756641.8    30.0     3.49     6.74
3.25     YES
 L0000809         0   0.27830E-06  400030.1 3756648.5    30.0     3.49     6.74
3.25     YES
 L0000810         0   0.27830E-06  400017.3 3756655.2    30.0     3.49     6.74
3.25     YES
 L0000811         0   0.27830E-06  400004.4 3756661.9    30.0     3.49     6.74
3.25     YES
 L0000812         0   0.27830E-06  399991.5 3756668.6    30.0     3.49     6.74
3.25     YES
 L0000813         0   0.27830E-06  399978.7 3756675.3    30.0     3.49     6.74
3.25     YES
 L0000814         0   0.27830E-06  399965.8 3756681.9    30.0     3.49     6.74
3.25     YES
 L0000815         0   0.27830E-06  399952.9 3756688.6    30.0     3.49     6.74
3.25     YES
 L0000816         0   0.27830E-06  399940.1 3756695.3    30.0     3.49     6.74
3.25     YES
 L0000817         0   0.27830E-06  399927.2 3756702.0    30.0     3.49     6.74
3.25     YES
 L0000818         0   0.27830E-06  399914.3 3756708.7    30.0     3.49     6.74
3.25     YES
 *** AERMOD - VERSION 16216r ***   *** C:\LAKES\AERMOD VIEW\12415 HRA\12415
HRA.ISC                          ***        08/25/19
 *** AERMET - VERSION  16216 ***   ***
                          ***        10:48:52

                                    PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE
L0000819	0	0.27830E-06	399901.5	3756715.4	30.0	3.49	6.74	3.25	YES
L0000820	0	0.27830E-06	399888.6	3756722.0	30.0	3.49	6.74	3.25	YES
L0000821	0	0.27830E-06	399875.7	3756728.7	30.0	3.49	6.74	3.25	YES
L0000822	0	0.27830E-06	399862.8	3756735.4	30.0	3.49	6.74	3.25	YES
L0000823	0	0.27830E-06	399850.0	3756742.1	30.0	3.49	6.74	3.25	YES
L0000824	0	0.27830E-06	399837.1	3756748.8	30.0	3.49	6.74	3.25	YES
L0000825	0	0.27830E-06	399824.2	3756755.5	30.0	3.49	6.74	3.25	YES
L0000826	0	0.27830E-06	399811.4	3756762.1	30.0	3.49	6.74	3.25	YES
L0000827	0	0.27830E-06	399798.5	3756768.8	30.0	3.49	6.74	3.25	YES
L0000828	0	0.27830E-06	399785.6	3756775.5	30.0	3.49	6.74	3.25	YES
L0000829	0	0.27830E-06	399772.7	3756782.1	30.0	3.49	6.74	3.25	YES
L0000830	0	0.27830E-06	399759.8	3756788.6	30.0	3.49	6.74	3.25	YES
L0000831	0	0.27830E-06	399746.8	3756795.2	30.0	3.49	6.74	3.25	YES
L0000832	0	0.27830E-06	399733.9	3756801.7	30.0	3.49	6.74	3.25	YES
L0000833	0	0.27830E-06	399720.9	3756808.2	30.0	3.49	6.74	3.25	YES
L0000834	0	0.27830E-06	399708.0	3756814.7	30.0	3.49	6.74	3.25	YES
L0000835	0	0.27830E-06	399695.0	3756821.3	30.0	3.49	6.74	3.25	YES
L0000836	0	0.27830E-06	399682.1	3756827.8	30.0	3.49	6.74	3.25	YES
L0000837	0	0.27830E-06	399669.1	3756834.3	30.0	3.49	6.74	3.25	YES

L0000838	0	0.27830E-06	399656.2	3756840.8	30.0	3.49	6.74	3.25 YES
L0000839	0	0.27830E-06	399643.2	3756847.4	30.0	3.49	6.74	3.25 YES
L0000840	0	0.27830E-06	399630.3	3756853.9	30.0	3.49	6.74	3.25 YES
L0000841	0	0.27830E-06	399617.3	3756860.4	30.0	3.49	6.74	3.25 YES
L0000842	0	0.27830E-06	399604.4	3756866.9	30.0	3.49	6.74	3.25 YES
L0000843	0	0.27830E-06	399591.4	3756873.5	30.0	3.49	6.74	3.25 YES
L0000844	0	0.27830E-06	399578.5	3756880.0	30.0	3.49	6.74	3.25 YES
L0000845	0	0.27830E-06	399565.5	3756886.5	30.0	3.49	6.74	3.25 YES
L0000846	0	0.27830E-06	399552.6	3756893.0	30.0	3.49	6.74	3.25 YES
L0000847	0	0.27830E-06	399539.6	3756899.6	30.0	3.49	6.74	3.25 YES
L0000848	0	0.27830E-06	399526.7	3756906.1	30.0	3.49	6.74	3.25 YES
L0000849	0	0.27830E-06	399513.8	3756912.6	30.0	3.49	6.74	3.25 YES
L0000850	0	0.27830E-06	399500.8	3756919.1	30.0	3.49	6.74	3.25 YES
L0000851	0	0.27830E-06	399487.9	3756925.7	30.0	3.49	6.74	3.25 YES
L0000852	0	0.27830E-06	399474.9	3756932.2	30.0	3.49	6.74	3.25 YES
L0000853	0	0.27830E-06	399462.0	3756938.9	30.0	3.49	6.74	3.25 YES
L0000854	0	0.27830E-06	399449.2	3756945.5	30.0	3.49	6.74	3.25 YES
L0000855	0	0.27830E-06	399436.3	3756952.2	30.0	3.49	6.74	3.25 YES
L0000856	0	0.27830E-06	399423.4	3756958.8	30.0	3.49	6.74	3.25 YES
L0000857	0	0.27830E-06	399410.5	3756965.5	30.0	3.49	6.74	3.25 YES
L0000858	0	0.27830E-06	399397.6	3756972.1	30.0	3.49	6.74	3.25 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE VARY
L0000859	0	0.27830E-06	399384.7	3756978.8	30.0	3.49	6.74	3.25	YES	
L0000860	0	0.27830E-06	399371.8	3756985.4	30.0	3.49	6.74	3.25	YES	
L0000861	0	0.27830E-06	399358.9	3756992.0	30.0	3.49	6.74	3.25	YES	
L0000862	0	0.27830E-06	399346.1	3756998.7	30.0	3.49	6.74	3.25	YES	
L0000863	0	0.27830E-06	399333.2	3757005.3	30.0	3.49	6.74	3.25	YES	
L0000864	0	0.27830E-06	399320.3	3757012.0	30.0	3.49	6.74	3.25	YES	
L0000865	0	0.27830E-06	399307.4	3757018.6	30.0	3.49	6.74	3.25	YES	
L0000866	0	0.27830E-06	399294.5	3757025.3	30.0	3.49	6.74	3.25	YES	
L0000867	0	0.27830E-06	399281.6	3757031.8	30.0	3.49	6.74	3.25	YES	
L0000868	0	0.27830E-06	399268.7	3757038.4	30.0	3.49	6.74	3.25	YES	
L0000869	0	0.27830E-06	399255.7	3757045.0	30.0	3.49	6.74	3.25	YES	
L0000870	0	0.27830E-06	399242.8	3757051.6	30.0	3.49	6.74	3.25	YES	
L0000871	0	0.27830E-06	399229.9	3757058.2	30.0	3.49	6.74	3.25	YES	
L0000872	0	0.27830E-06	399217.0	3757064.8	30.0	3.49	6.74	3.25	YES	
L0000873	0	0.27830E-06	399204.1	3757071.4	30.0	3.49	6.74	3.25	YES	
L0000874	0	0.27830E-06	399191.2	3757078.0	30.0	3.49	6.74	3.25	YES	
L0000875	0	0.27830E-06	399178.2	3757084.6	30.0	3.49	6.74	3.25	YES	

L0000876	0	0.27830E-06	399165.3	3757091.1	30.0	3.49	6.74	3.25 YES
L0000877	0	0.27830E-06	399152.4	3757097.7	30.0	3.49	6.74	3.25 YES
L0000878	0	0.27830E-06	399139.5	3757104.3	30.0	3.49	6.74	3.25 YES
L0000879	0	0.27830E-06	399126.6	3757110.9	30.0	3.49	6.74	3.25 YES
L0000880	0	0.27830E-06	399113.7	3757117.5	30.0	3.49	6.74	3.25 YES
L0000881	0	0.27830E-06	399100.7	3757124.1	30.0	3.49	6.74	3.25 YES
L0000882	0	0.27830E-06	399087.8	3757130.7	30.0	3.49	6.74	3.25 YES
L0000883	0	0.27830E-06	399074.9	3757137.3	30.0	3.49	6.74	3.25 YES
L0000884	0	0.27830E-06	399062.0	3757143.9	30.0	3.49	6.74	3.25 YES
L0000885	0	0.27830E-06	399049.1	3757150.4	30.0	3.49	6.74	3.25 YES
L0000886	0	0.27830E-06	399036.2	3757157.0	30.0	3.49	6.74	3.25 YES
L0000887	0	0.27830E-06	399023.3	3757163.6	30.0	3.49	6.74	3.25 YES
L0000888	0	0.11150E-06	400136.1	3756594.1	30.0	3.49	6.74	3.25 YES
L0000889	0	0.11150E-06	400149.1	3756587.6	30.0	3.49	6.74	3.25 YES
L0000890	0	0.11150E-06	400162.0	3756581.2	30.0	3.49	6.74	3.25 YES
L0000891	0	0.11150E-06	400175.0	3756574.7	30.0	3.49	6.74	3.25 YES
L0000892	0	0.11150E-06	400188.0	3756568.2	30.0	3.49	6.74	3.25 YES
L0000893	0	0.11150E-06	400200.9	3756561.7	30.0	3.49	6.74	3.25 YES
L0000894	0	0.11150E-06	400213.9	3756555.2	30.0	3.49	6.74	3.25 YES
L0000895	0	0.11150E-06	400226.9	3756548.7	30.0	3.49	6.74	3.25 YES
L0000896	0	0.11150E-06	400239.8	3756542.3	30.0	3.49	6.74	3.25 YES
L0000897	0	0.11150E-06	400252.8	3756535.8	30.0	3.49	6.74	3.25 YES
L0000898	0	0.11150E-06	400265.8	3756529.3	30.0	3.49	6.74	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0000899	0	0.11150E-06	400278.8	3756522.8	30.0	3.49	6.74	3.25	YES
L0000900	0	0.11150E-06	400291.7	3756516.3	30.0	3.49	6.74	3.25	YES
L0000901	0	0.11150E-06	400304.7	3756509.8	30.0	3.49	6.74	3.25	YES
L0000902	0	0.11150E-06	400317.7	3756503.3	30.0	3.49	6.74	3.25	YES
L0000903	0	0.11150E-06	400330.6	3756496.9	30.0	3.49	6.74	3.25	YES
L0000904	0	0.11150E-06	400343.6	3756490.4	30.0	3.49	6.74	3.25	YES
L0000905	0	0.11150E-06	400356.5	3756483.8	30.0	3.49	6.74	3.25	YES
L0000906	0	0.11150E-06	400369.4	3756477.2	30.0	3.49	6.74	3.25	YES
L0000907	0	0.11150E-06	400382.3	3756470.6	30.0	3.49	6.74	3.25	YES
L0000908	0	0.11150E-06	400395.2	3756463.9	30.0	3.49	6.74	3.25	YES
L0000909	0	0.11150E-06	400408.1	3756457.3	30.0	3.49	6.74	3.25	YES
L0000910	0	0.11150E-06	400421.0	3756450.7	30.0	3.49	6.74	3.25	YES
L0000911	0	0.11150E-06	400433.9	3756444.1	30.0	3.49	6.74	3.25	YES
L0000912	0	0.11150E-06	400446.8	3756437.5	30.0	3.49	6.74	3.25	YES
L0000913	0	0.11150E-06	400459.7	3756430.8	30.0	3.49	6.74	3.25	YES

L0000914	0	0.11150E-06	400472.6	3756424.2	30.0	3.49	6.74	3.25 YES
L0000915	0	0.11150E-06	400485.5	3756417.6	30.0	3.49	6.74	3.25 YES
L0000916	0	0.11150E-06	400498.4	3756411.0	30.0	3.49	6.74	3.25 YES
L0000917	0	0.11150E-06	400511.3	3756404.3	30.0	3.49	6.74	3.25 YES
L0000918	0	0.11150E-06	400524.2	3756397.7	30.0	3.49	6.74	3.25 YES
L0000919	0	0.11150E-06	400537.2	3756391.2	30.0	3.49	6.74	3.25 YES
L0000920	0	0.11150E-06	400550.2	3756384.8	30.0	3.49	6.74	3.25 YES
L0000921	0	0.11150E-06	400563.1	3756378.3	30.0	3.49	6.74	3.25 YES
L0000922	0	0.11150E-06	400576.1	3756371.8	30.0	3.49	6.74	3.25 YES
L0000923	0	0.11150E-06	400589.1	3756365.4	30.0	3.49	6.74	3.25 YES
L0000924	0	0.11150E-06	400602.1	3756358.9	30.0	3.49	6.74	3.25 YES
L0000925	0	0.11150E-06	400615.1	3756352.5	30.0	3.49	6.74	3.25 YES
L0000926	0	0.11150E-06	400628.1	3756346.0	30.0	3.49	6.74	3.25 YES
L0000927	0	0.11150E-06	400641.0	3756339.6	30.0	3.49	6.74	3.25 YES
L0000928	0	0.11150E-06	400654.0	3756333.1	30.0	3.49	6.74	3.25 YES
L0000929	0	0.11150E-06	400667.0	3756326.7	30.0	3.49	6.74	3.25 YES
L0000930	0	0.11150E-06	400680.0	3756320.2	30.0	3.49	6.74	3.25 YES
L0000931	0	0.11150E-06	400693.0	3756313.8	30.0	3.49	6.74	3.25 YES
L0000932	0	0.11150E-06	400706.0	3756307.3	30.0	3.49	6.74	3.25 YES
L0000933	0	0.11150E-06	400719.0	3756300.8	30.0	3.49	6.74	3.25 YES
L0000934	0	0.11150E-06	400731.9	3756294.4	30.0	3.49	6.74	3.25 YES
L0000935	0	0.11150E-06	400744.9	3756287.9	30.0	3.49	6.74	3.25 YES
L0000936	0	0.11150E-06	400757.9	3756281.5	30.0	3.49	6.74	3.25 YES
L0000937	0	0.11150E-06	400770.9	3756275.0	30.0	3.49	6.74	3.25 YES

 L0000938   0   0.11150E-06 400783.9 3756268.6   30.0   3.49   6.74
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0000939   0   0.11150E-06 400796.9 3756262.1   30.0   3.49   6.74
3.25   YES
 L0000940   0   0.11150E-06 400810.1 3756256.2   30.0   3.49   6.74
3.25   YES
 L0000941   0   0.11150E-06 400823.5 3756250.8   30.0   3.49   6.74
3.25   YES
 L0000942   0   0.11150E-06 400837.0 3756245.4   30.0   3.49   6.74
3.25   YES
 L0000943   0   0.11150E-06 400850.5 3756240.0   30.0   3.49   6.74
3.25   YES
 L0000944   0   0.11150E-06 400864.2 3756235.7   30.0   3.49   6.74
3.25   YES
 L0000945   0   0.11150E-06 400878.6 3756233.9   30.0   3.49   6.74
3.25   YES
 L0000946   0   0.11150E-06 400893.0 3756232.1   30.0   3.49   6.74
3.25   YES
 L0000947   0   0.11150E-06 400907.4 3756230.3   30.1   3.49   6.74
3.25   YES
 L0000948   0   0.11150E-06 400921.7 3756228.5   30.1   3.49   6.74
3.25   YES
 L0000949   0   0.11150E-06 400936.1 3756226.8   30.2   3.49   6.74
3.25   YES
 L0000950   0   0.11150E-06 400950.5 3756225.0   30.2   3.49   6.74
3.25   YES
 L0000951   0   0.11150E-06 400964.9 3756223.2   30.2   3.49   6.74
3.25   YES

L0000952	0	0.11150E-06	400979.3	3756221.4	30.3	3.49	6.74	3.25 YES
L0000953	0	0.11150E-06	400993.7	3756219.6	30.5	3.49	6.74	3.25 YES
L0000954	0	0.11150E-06	401008.1	3756217.8	30.6	3.49	6.74	3.25 YES
L0000955	0	0.11150E-06	401022.5	3756216.1	30.8	3.49	6.74	3.25 YES
L0000956	0	0.11150E-06	401036.9	3756215.9	30.9	3.49	6.74	3.25 YES
L0000957	0	0.11150E-06	401051.4	3756216.8	31.0	3.49	6.74	3.25 YES
L0000958	0	0.11150E-06	401065.9	3756217.7	31.0	3.49	6.74	3.25 YES
L0000959	0	0.11150E-06	401080.3	3756218.7	31.0	3.49	6.74	3.25 YES
L0000960	0	0.11150E-06	401094.8	3756219.6	31.0	3.49	6.74	3.25 YES
L0000961	0	0.11150E-06	401109.3	3756220.1	31.0	3.49	6.74	3.25 YES
L0000962	0	0.11150E-06	401123.8	3756219.9	31.0	3.49	6.74	3.25 YES
L0000963	0	0.11150E-06	401138.3	3756219.8	31.1	3.49	6.74	3.25 YES
L0000964	0	0.11150E-06	401152.8	3756219.7	31.1	3.49	6.74	3.25 YES
L0000965	0	0.11150E-06	401167.3	3756219.6	31.1	3.49	6.74	3.25 YES
L0000966	0	0.11150E-06	401181.8	3756219.4	31.2	3.49	6.74	3.25 YES
L0000967	0	0.11150E-06	401196.3	3756219.3	31.2	3.49	6.74	3.25 YES
L0000968	0	0.11150E-06	401210.8	3756219.2	31.3	3.49	6.74	3.25 YES
L0000969	0	0.11150E-06	401225.3	3756219.1	31.5	3.49	6.74	3.25 YES
L0000970	0	0.11150E-06	401239.8	3756218.9	31.7	3.49	6.74	3.25 YES
L0000971	0	0.11150E-06	401254.3	3756218.8	31.8	3.49	6.74	3.25 YES
L0000972	0	0.11150E-06	401268.8	3756218.7	32.0	3.49	6.74	3.25 YES
L0000973	0	0.11150E-06	401283.3	3756218.6	32.0	3.49	6.74	3.25 YES
L0000974	0	0.11150E-06	401297.8	3756218.4	32.1	3.49	6.74	3.25 YES
L0000975	0	0.11150E-06	401312.3	3756218.3	32.1	3.49	6.74	3.25 YES

 L0000976   0   0.11150E-06 401326.8 3756218.2   32.1   3.49   6.74
3.25   YES
 L0000977   0   0.11150E-06 401341.3 3756218.1   32.2   3.49   6.74
3.25   YES
 L0000978   0   0.11150E-06 401355.8 3756218.0   32.2   3.49   6.74
3.25   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0000979   0   0.11150E-06 401370.3 3756217.8   32.2   3.49   6.74
3.25   YES
 L0000980   0   0.11150E-06 401384.8 3756217.7   32.2   3.49   6.74
3.25   YES
 L0000981   0   0.11150E-06 401399.3 3756217.6   32.2   3.49   6.74
3.25   YES
 L0000982   0   0.11150E-06 401413.8 3756217.5   32.2   3.49   6.74
3.25   YES
 L0000983   0   0.11150E-06 401428.3 3756217.3   32.2   3.49   6.74
3.25   YES
 L0000984   0   0.11150E-06 401442.8 3756217.2   32.4   3.49   6.74
3.25   YES
 L0000985   0   0.11150E-06 401457.3 3756217.1   32.5   3.49   6.74
3.25   YES
 L0000986   0   0.11150E-06 401471.8 3756217.0   32.7   3.49   6.74
3.25   YES
 L0000987   0   0.11150E-06 401486.3 3756216.8   32.8   3.49   6.74
3.25   YES
 L0000988   0   0.11150E-06 401500.8 3756216.7   33.0   3.49   6.74
3.25   YES
 L0000989   0   0.11150E-06 401515.3 3756216.6   33.0   3.49   6.74
3.25   YES

L0000990	0	0.11150E-06	401529.8	3756216.5	33.0	3.49	6.74	3.25 YES
L0000991	0	0.11150E-06	401544.3	3756216.4	33.0	3.49	6.74	3.25 YES
L0000992	0	0.11150E-06	401558.8	3756216.3	33.0	3.49	6.74	3.25 YES
L0000993	0	0.11150E-06	401573.3	3756216.2	33.0	3.49	6.74	3.25 YES
L0000994	0	0.11150E-06	401587.8	3756216.1	33.0	3.49	6.74	3.25 YES
L0000995	0	0.11150E-06	401602.3	3756216.0	33.0	3.49	6.74	3.25 YES
L0000996	0	0.11150E-06	401616.8	3756215.9	33.1	3.49	6.74	3.25 YES
L0000997	0	0.11150E-06	401631.3	3756215.8	33.1	3.49	6.74	3.25 YES
L0000998	0	0.11150E-06	401645.8	3756215.7	33.2	3.49	6.74	3.25 YES
L0000999	0	0.11150E-06	401660.3	3756215.6	33.2	3.49	6.74	3.25 YES
L0001000	0	0.11150E-06	401674.8	3756215.5	33.4	3.49	6.74	3.25 YES
L0001001	0	0.11150E-06	401689.3	3756215.4	33.5	3.49	6.74	3.25 YES
L0001002	0	0.11150E-06	401703.8	3756215.2	33.7	3.49	6.74	3.25 YES
L0001003	0	0.11150E-06	401718.3	3756215.1	33.8	3.49	6.74	3.25 YES
L0001004	0	0.11150E-06	401732.8	3756215.0	34.0	3.49	6.74	3.25 YES
L0001005	0	0.11150E-06	401747.3	3756214.9	34.0	3.49	6.74	3.25 YES
L0001006	0	0.11150E-06	401761.8	3756214.8	34.0	3.49	6.74	3.25 YES
L0001007	0	0.11150E-06	401776.3	3756214.7	34.0	3.49	6.74	3.25 YES
L0001008	0	0.11150E-06	401790.8	3756214.6	34.0	3.49	6.74	3.25 YES
L0001009	0	0.11150E-06	401805.2	3756214.5	34.0	3.49	6.74	3.25 YES
L0001010	0	0.11150E-06	401819.8	3756214.4	34.0	3.49	6.74	3.25 YES
L0001011	0	0.11150E-06	401834.2	3756214.3	34.1	3.49	6.74	3.25 YES
L0001012	0	0.11150E-06	401848.7	3756214.2	34.1	3.49	6.74	3.25 YES
L0001013	0	0.11150E-06	401863.2	3756214.1	34.1	3.49	6.74	3.25 YES

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 L0001014         0   0.11150E-06  401877.7 3756214.0    34.2     3.49     6.74
3.25     YES
 L0001015         0   0.11150E-06  401892.2 3756213.9    34.2     3.49     6.74
3.25     YES
 L0001016         0   0.11150E-06  401906.7 3756213.8    34.4     3.49     6.74
3.25     YES
 L0001017         0   0.11150E-06  401921.2 3756213.7    34.5     3.49     6.74
3.25     YES
 L0001018         0   0.11150E-06  401935.7 3756213.7    34.7     3.49     6.74
3.25     YES
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0001019         0   0.11150E-06  401950.2 3756213.7    34.8     3.49     6.74
3.25     YES
 L0001020         0   0.11150E-06  401964.7 3756213.7    35.0     3.49     6.74
3.25     YES
 L0001021         0   0.11150E-06  401979.2 3756213.7    35.0     3.49     6.74
3.25     YES
 L0001022         0   0.11150E-06  401993.7 3756213.7    35.0     3.49     6.74
3.25     YES
 L0001023         0   0.11150E-06  402008.2 3756213.7    35.0     3.49     6.74
3.25     YES
 L0001024         0   0.11150E-06  402022.7 3756213.7    35.0     3.49     6.74
3.25     YES
 L0001025         0   0.11150E-06  402037.2 3756213.7    35.0     3.49     6.74
3.25     YES
 L0001026         0   0.11150E-06  402051.7 3756213.7    35.1     3.49     6.74
3.25     YES
 L0001027         0   0.11150E-06  402066.2 3756213.7    35.3     3.49     6.74
3.25     YES
```

```
 L0001028         0   0.11150E-06  402080.7 3756213.7    35.5     3.49     6.74
3.25     YES
 L0001029         0   0.11150E-06  402095.2 3756213.7    35.7     3.49     6.74
3.25     YES
 L0001030         0   0.11150E-06  402109.7 3756213.7    35.9     3.49     6.74
3.25     YES
 L0001031         0   0.11150E-06  402124.2 3756213.7    36.0     3.49     6.74
3.25     YES
 L0001032         0   0.11150E-06  402138.7 3756213.7    36.1     3.49     6.74
3.25     YES
 L0001033         0   0.11150E-06  402153.2 3756213.7    36.1     3.49     6.74
3.25     YES
 L0001034         0   0.11150E-06  402167.7 3756213.7    36.1     3.49     6.74
3.25     YES
 L0001035         0   0.11150E-06  402182.2 3756213.7    36.2     3.49     6.74
3.25     YES
 L0001036         0   0.11150E-06  402196.7 3756213.7    36.2     3.49     6.74
3.25     YES
 L0001037         0   0.11150E-06  402211.2 3756213.7    36.2     3.49     6.74
3.25     YES
 L0001038         0   0.11150E-06  402225.7 3756213.7    36.2     3.49     6.74
3.25     YES
 L0001039         0   0.11150E-06  402240.2 3756213.7    36.2     3.49     6.74
3.25     YES
 L0001040         0   0.11150E-06  402254.7 3756213.7    36.2     3.49     6.74
3.25     YES
 L0001041         0   0.11150E-06  402269.2 3756213.7    36.2     3.49     6.74
3.25     YES
 L0001042         0   0.11150E-06  402283.7 3756213.7    36.3     3.49     6.74
3.25     YES
 *** AERMOD - VERSION 16216r ***   *** C:\LAKES\AERMOD VIEW\12415 HRA\12415
HRA.ISC                          ***        08/25/19
 *** AERMET - VERSION  16216 ***   ***
                         ***        10:48:52

                                   PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                                 SOURCE IDs
 -----------                                                 ----------


  ALL        L0000643    , L0000644    , L0000645    , L0000646    , L0000647    ,
L0000648    , L0000649    , L0000650    ,
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L0000672 , L0000673 , L0000674 ,

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L0000728 , L0000729 , L0000730 ,

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L0000736 , L0000737 , L0000738 ,

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L0000811 , L0000812 , L0000813 , L0000814 , L0000815 , L0000816 , L0000817 , L0000818 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0000819 , L0000820 , L0000821 , L0000822 , L0000823 , L0000824 , L0000825 , L0000826 ,

L0000827 , L0000828 , L0000829 , L0000830 , L0000831 , L0000832 , L0000833 , L0000834 ,

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L0000875 , L0000876 , L0000877 , L0000878 , L0000879 , L0000880 , L0000881 , L0000882 ,

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L0000888    , L0000889    , L0000890    ,

             L0000891    , L0000892    , L0000893    , L0000894    , L0000895    ,
L0000896    , L0000897    , L0000898    ,

             L0000899    , L0000900    , L0000901    , L0000902    , L0000903    ,
L0000904    , L0000905    , L0000906    ,

             L0000907    , L0000908    , L0000909    , L0000910    , L0000911    ,
L0000912    , L0000913    , L0000914    ,

             L0000915    , L0000916    , L0000917    , L0000918    , L0000919    ,
L0000920    , L0000921    , L0000922    ,

             L0000923    , L0000924    , L0000925    , L0000926    , L0000927    ,
L0000928    , L0000929    , L0000930    ,

             L0000931    , L0000932    , L0000933    , L0000934    , L0000935    ,
L0000936    , L0000937    , L0000938    ,

             L0000939    , L0000940    , L0000941    , L0000942    , L0000943    ,
L0000944    , L0000945    , L0000946    ,

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L0000968    , L0000969    , L0000970    ,

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L0000976    , L0000977    , L0000978    ,
 *** AERMOD - VERSION 16216r ***   *** C:\LAKES\AERMOD VIEW\12415 HRA\12415
HRA.ISC                          ***        08/25/19
 *** AERMET - VERSION  16216 ***   ***
                          ***        10:48:52

                                   PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                              *** SOURCE IDs DEFINING SOURCE GROUPS
***
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SRCGROUP ID — SOURCE IDs

L0000979 , L0000980 , L0000981 , L0000982 , L0000983 , L0000984 , L0000985 , L0000986 ,

L0000987 , L0000988 , L0000989 , L0000990 , L0000991 , L0000992 , L0000993 , L0000994 ,

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L0001035 , L0001036 , L0001037 , L0001038 , L0001039 , L0001040 , L0001041 , L0001042 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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		L0000651 , L0000652 , L0000653 , L0000654 , L0000655 ,

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L0000811 , L0000812 , L0000813 , L0000814 , L0000815 ,
L0000816 , L0000817 , L0000818 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0000819 , L0000820 , L0000821 , L0000822 , L0000823 ,
L0000824 , L0000825 , L0000826 ,

L0000827 , L0000828 , L0000829 , L0000830 , L0000831 ,
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L0000976 , L0000977 , L0000978 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0000979 , L0000980 , L0000981 , L0000982 , L0000983 , L0000984 , L0000985 , L0000986 ,

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L0001035 , L0001036 , L0001037 , L0001038 , L0001039 , L0001040 , L0001041 , L0001042 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(399834.6, 3756901.1, 30.0, 30.0, 0.0); (399881.6, 3756959.2, 30.0, 30.0, 0.0);
(400309.0, 3757103.0, 31.2, 31.2, 0.0); (400283.0, 3757113.1, 31.0, 31.0, 0.0);
(400251.1, 3757126.1, 31.0, 31.0, 0.0); (401083.7, 3756194.5, 30.9, 30.9, 0.0);
(401160.4, 3756190.5, 30.9, 30.9, 0.0); (400961.5,

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     ( 401389.4, 3756190.8,      32.0,      32.0,       0.0);         ( 401593.0,
3756190.8,      33.0,      33.0,       0.0);
     ( 399666.0, 3756884.5,      30.0,      30.0,       0.0);         ( 399524.9,
3756953.5,      30.0,      30.0,       0.0);
     ( 399695.8, 3756776.3,      30.0,      30.0,       0.0);         ( 399173.6,
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     ( 399986.8, 3756363.2,      30.0,      30.0,       0.0);         ( 399756.3,
3756464.9,      30.0,      30.0,       0.0);
     ( 399982.1, 3756048.8,      30.0,      30.0,       0.0);         ( 399977.4,
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     ( 399750.6, 3755768.8,      30.0,      30.0,       0.0);         ( 399830.0,
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     ( 399714.2, 3755880.6,      30.0,      30.0,       0.0);         ( 399382.6,
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     ( 399435.8, 3756494.8,      30.0,      30.0,       0.0);         ( 399594.9,
3756499.7,      30.0,      30.0,       0.0);
     ( 399395.0, 3756147.0,      30.0,      30.0,       0.0);         ( 399528.0,
3756277.2,      30.0,      30.0,       0.0);
     ( 399373.9, 3756299.8,      30.0,      30.0,       0.0);         ( 400145.8,
3757648.1,      33.0,      33.0,       0.0);
     ( 399998.0, 3757455.6,      31.6,      31.6,       0.0);         ( 400053.1,
3757611.3,      32.1,      32.1,       0.0);
     ( 400028.6, 3757522.1,      32.0,      32.0,       0.0);         ( 400076.7,
3757695.1,      33.0,      33.0,       0.0);
     ( 400499.8, 3754950.3,      30.0,      30.0,       0.0);         ( 400298.3,
3756839.2,      30.0,      30.0,       0.0);
     ( 400190.4, 3756645.6,      30.0,      30.0,       0.0);         ( 400253.2,
3756618.2,      30.0,      30.0,       0.0);
     ( 400305.2, 3756599.3,      30.0,      30.0,       0.0);         ( 400131.0,
3756692.4,      30.0,      30.0,       0.0);
     ( 400110.5, 3756661.6,      30.0,      30.0,       0.0);         ( 400146.6,
3756739.5,      30.0,      30.0,       0.0);
     ( 400161.3, 3756771.9,      30.0,      30.0,       0.0);         ( 400190.8,
3756832.6,      30.0,      30.0,       0.0);
     ( 400196.3, 3756867.4,      30.0,      30.0,       0.0);         ( 400267.6,
3756867.4,      30.0,      30.0,       0.0);
     ( 400373.0, 3756825.2,      30.2,      30.2,       0.0);         ( 400429.6,
3756749.3,      30.0,      30.0,       0.0);
     ( 400406.2, 3756675.5,      30.0,      30.0,       0.0);         ( 400407.1,
3756629.6,      30.0,      30.0,       0.0);
     ( 400374.1, 3756558.7,      30.0,      30.0,       0.0);         ( 399909.6,
3756683.1,      30.0,      30.0,       0.0);
     ( 399842.7, 3756685.3,      30.0,      30.0,       0.0);         ( 399988.5,
3756605.3,      30.0,      30.0,       0.0);
     ( 400169.6, 3756528.1,      30.0,      30.0,       0.0);         ( 400127.1,
```

3756520.1,   30.0,   30.0,   0.0);
     (400237.8, 3756496.3,   30.0,   30.0,   0.0);   (400375.1,
3756421.4,   30.0,   30.0,   0.0);
     (400206.2, 3756353.7,   30.0,   30.0,   0.0);   (400073.5,
3756296.0,   30.0,   30.0,   0.0);
     (400165.6, 3756253.8,   30.0,   30.0,   0.0);   (400118.8,
3756010.3,   30.0,   30.0,   0.0);
     (400904.6, 3755939.6,   30.0,   30.0,   0.0);   (399986.9,
3756215.5,   30.0,   30.0,   0.0);
     (399428.9, 3756987.5,   30.0,   30.0,   0.0);   (399354.5,
3756826.2,   30.0,   30.0,   0.0);
     (399580.8, 3757319.2,   30.0,   30.0,   0.0);   (400055.1,
3757204.5,   30.7,   30.7,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

               NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
WHAT IS INCLUDED IN THE DATA FILE.

                                      *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,
10.80,
*** AERMOD - VERSION 16216r *** *** C:\LAKES\AERMOD VIEW\12415 HRA\12415
HRA.ISC *** 08/25/19
*** AERMET - VERSION 16216 *** ***
*** 10:48:52

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL
DATA ***

Surface file: PICO_V9_ADJU\PICO_V9.SFC
Met Version: 16216
Profile file: PICO_V9_ADJU\PICO_V9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3166 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2010 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
10	01	01	1	01	-38.6	0.384	-9.000	-9.000	-999.	572.	162.4	0.34	0.73	1.00	3.10	321.	9.1	283.8	5.5
10	01	01	1	02	-33.5	0.333	-9.000	-9.000	-999.	462.	121.8	0.34	0.73	1.00	2.70	217.	9.1	282.5	5.5
10	01	01	1	03	-21.9	0.218	-9.000	-9.000	-999.	251.	52.2	0.34	0.73	1.00	1.80	290.	9.1	282.5	5.5
10	01	01	1	04	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	255.	9.1	282.0	5.5
10	01	01	1	05	-21.9	0.218	-9.000	-9.000	-999.	245.	52.2	0.34	0.73	1.00	1.80	234.	9.1	282.0	5.5
10	01	01	1	06	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	258.	9.1	282.0	5.5
10	01	01	1	07	-27.2	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	213.	9.1	281.4	5.5
10	01	01	1	08	-22.6	0.335	-9.000	-9.000	-999.	466.	151.7	0.34	0.73						

```
0.54    2.70  215.    9.1  282.0    5.5
 10 01 01   1 09   26.9  0.249  0.347  0.008   56.  302.    -51.9  0.34   0.73
0.32    1.80  199.    9.1  284.2    5.5
 10 01 01   1 10   65.3  0.365  0.593  0.008  116.  529.    -67.5  0.34   0.73
0.24    2.70  117.    9.1  288.1    5.5
 10 01 01   1 11   94.5  0.374  0.933  0.008  311.  550.    -50.3  0.34   0.73
0.21    2.70  243.    9.1  290.4    5.5
 10 01 01   1 12  103.9  0.279  1.087  0.008  448.  359.    -19.0  0.34   0.73
0.20    1.80  130.    9.1  293.1    5.5
 10 01 01   1 13   83.7  0.273  1.073  0.008  533.  343.    -22.0  0.34   0.73
0.20    1.80  282.    9.1  294.9    5.5
 10 01 01   1 14   82.0  0.218  1.112  0.008  606.  245.    -11.4  0.34   0.73
0.21    1.30  290.    9.1  295.9    5.5
 10 01 01   1 15   38.9  0.202  0.881  0.008  636.  217.    -19.0  0.34   0.73
0.25    1.30  192.    9.1  294.9    5.5
 10 01 01   1 16   11.4  0.181  0.588  0.008  643.  185.    -47.4  0.34   0.73
0.33    1.30  218.    9.1  293.8    5.5
 10 01 01   1 17  -10.7  0.155 -9.000 -9.000 -999.  147.     31.4  0.34   0.73
0.60    1.30  255.    9.1  292.0    5.5
 10 01 01   1 18   -5.5  0.104 -9.000 -9.000 -999.   81.     18.6  0.34   0.73
1.00    0.90  129.    9.1  289.2    5.5
 10 01 01   1 19  -11.8  0.154 -9.000 -9.000 -999.  145.     27.8  0.34   0.73
1.00    1.30  264.    9.1  287.5    5.5
 10 01 01   1 20  -11.8  0.154 -9.000 -9.000 -999.  144.     27.8  0.34   0.73
1.00    1.30   25.    9.1  287.0    5.5
 10 01 01   1 21  -21.6  0.218 -9.000 -9.000 -999.  244.     52.2  0.34   0.73
1.00    1.80  343.    9.1  285.9    5.5
 10 01 01   1 22  -21.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.34   0.73
1.00    1.80  332.    9.1  284.9    5.5
 10 01 01   1 23  -21.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.34   0.73
1.00    1.80  178.    9.1  284.2    5.5
 10 01 01   1 24  -11.8  0.154 -9.000 -9.000 -999.  145.     27.6  0.34   0.73
1.00    1.30   28.    9.1  283.1    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 10 01 01 01    5.5 0 -999.  -99.00   283.8   99.0  -99.00  -99.00
 10 01 01 01    9.1 1  321.    3.10  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
↑ *** AERMOD - VERSION 16216r ***   *** C:\LAKES\AERMOD VIEW\12415 HRA\12415
HRA.ISC                          ***        08/25/19
 *** AERMET - VERSION  16216 ***   ***
                         ***        10:48:52

                                   PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000643 , L0000644 , L0000645 , L0000646 , L0000647 ,
L0000648 , L0000649 , L0000650 , L0000651 , L0000652 , L0000653 , L0000654 , L0000655 ,
L0000656 , L0000657 , L0000658 , L0000659 , L0000660 , L0000661 , L0000662 , L0000663 ,
L0000664 , L0000665 , L0000666 , L0000667 , L0000668 , L0000669 , L0000670 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
399762.78	3756736.73	0.00119	399853.12	3756894.24	0.00075
399868.80	3756931.87	0.00067	399850.84	3756936.43	0.00066
399834.59	3756901.08	0.00073	399881.63	3756959.23	0.00063
400309.04	3757102.96	0.00066	400282.98	3757113.09	0.00063
400251.12	3757126.12	0.00060	401083.69	3756194.47	0.00068
401160.44	3756190.46	0.00060	400961.53	3756189.65	0.00058
400978.00	3756195.28	0.00067	400899.32	3756103.43	0.00029
401389.41	3756190.76	0.00060	401593.01	3756190.76	0.00060
399666.05	3756884.47	0.00116	399524.92	3756953.47	0.00111
399695.85	3756776.26	0.00120	399173.65	3756993.45	0.00055
399986.83	3756363.18	0.00108	399756.33	3756464.88	0.00047
399982.10	3756048.78	0.00080	399977.36	3755863.17	0.00069
399750.63	3755768.78	0.00021	399830.04	3755880.65	0.00028

399714.17 3755880.65 0.00022 399382.59
3756163.16 0.00017
399435.83 3756494.75 0.00026 399594.93
3756499.67 0.00035
399395.00 3756146.99 0.00017 399528.05
3756277.22 0.00024
399373.89 3756299.75 0.00019 400145.78
3757648.07 0.00016
399997.96 3757455.64 0.00022 400053.07
3757611.33 0.00017
400028.58 3757522.12 0.00020 400076.66
3757695.10 0.00015
400499.76 3754950.27 0.00007 400298.28
3756839.18 0.00864
400190.43 3756645.64 0.00755 400253.17
3756618.17 0.00881
400305.25 3756599.31 0.00566 400130.98
3756692.39 0.00557
400110.48 3756661.64 0.00442 400146.56
3756739.54 0.00516
400161.32 3756771.94 0.00509 400190.84
3756832.62 0.00498
400196.30 3756867.43 0.00318 400267.65
3756867.43 0.00467
400373.04 3756825.19 0.00423 400429.63
3756749.33 0.00228
400406.25 3756675.52 0.00263 400407.07
3756629.59 0.00229
400374.10 3756558.73 0.00210 399909.65
3756683.07 0.00194
399842.67 3756685.34 0.00119 399988.55
3756605.30 0.00160
400169.63 3756528.10 0.00225 400127.06
3756520.15 0.00205
400237.75 3756496.31 0.00194 400375.11
3756421.38 0.00113
400206.16 3756353.72 0.00084 400073.50
3756295.97 0.00094
400165.58 3756253.83 0.00064 400118.76
3756010.35 0.00050
400904.62 3755939.56 0.00019 399986.93
3756215.49 0.00098
399428.88 3756987.47 0.00140 399354.47
3756826.25 0.00042
399580.79 3757319.20 0.00024 400055.14
3757204.49 0.00040

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS
AVERAGED OVER   5 YEARS ***

** CONC OF DPM   IN MICROGRAMS/M**3
**

GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00881 AT (400253.17, 3756618.17, 30.00, 30.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00864 AT (400298.28, 3756839.18, 30.00, 30.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00755 AT (400190.43, 3756645.64, 30.00, 30.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00566 AT (400305.25, 3756599.31, 30.00, 30.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00557 AT (400130.98, 3756692.39, 30.00, 30.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00516 AT (400146.56, 3756739.54, 30.00, 30.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00509 AT (400161.32, 3756771.94, 30.00, 30.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00498 AT (400190.84, 3756832.62, 30.00, 30.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00467 AT (400267.65, 3756867.43, 30.00, 30.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00442 AT (400110.48, 3756661.64, 30.00, 30.00, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
                     GP = GRIDPOLR
                     DC = DISCCART
                     DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   4 Warning Message(s)
A Total of   1277 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   152 Calm Hours Identified

A Total of   1125 Missing Hours Identified (2.57 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   1005   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
ME W187   1005   MEOPEN: ADJ_U* Option for Low Winds used in AERMET

MX W450   26305   CHKDAT: Record Out of Sequence in Meteorological File at:
 15010101
MX W450   26305   CHKDAT: Record Out of Sequence in Meteorological File at:
2 year gap

   ****
   *** AERMOD Finishes Successfully ***
   ****

AVERAGE EMISSION FACTOR
LOS ANGELES 2021

Speed	LHD1	MHD	HHD
0	0.385136	0.17903	0.02432
5	0.023033	0.148381	0.08931
25	0.008907	0.058057	0.03773

Speed	**Weighted Average Emissions**
0	**0.18756**
5	**0.07541**
25	**0.03070**

Emission Rates - 2021 Emission Factors

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	55			0.1876	2.59	3.002E-05
On-Site Idling Building 2	15			0.1876	0.70	8.127E-06
On-Site Idling Building 3	17			0.1876	0.78	9.073E-06
On-Site Travel Building 1	111	11.77	0.0754		0.89	1.028E-05
On-Site Travel Buildings 2 & 3	63	5.82	0.0754		0.44	5.078E-06
Off-Site Travel 100% Project to Telegraph Road	174	27.98	0.0307		0.86	9.943E-06
Off-Site Travel 30%	52	37.54	0.0307		1.15	1.334E-05
Off-Site Travel 50%	87	65.78	0.0307		2.02	2.338E-05
Off-Site Travel 20%	35	48.62	0.0307		1.49	1.728E-05

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

calendar_y	season_m	sub_area	vehicle_class	fuel	temperatu	relative_h	process	speed_tim
2021	Annual	Los Angele	HHDT	Dsl	60	70	RUNEX	5
2021	Annual	Los Angele	HHDT	Dsl	60	70	RUNEX	25
2021	Annual	Los Angele	LHDT1	Dsl	60	70	RUNEX	5
2021	Annual	Los Angele	LHDT1	Dsl	60	70	RUNEX	25
2021	Annual	Los Angele	MHDT	Dsl	60	70	RUNEX	5
2021	Annual	Los Angele	MHDT	Dsl	60	70	RUNEX	25
2021	Annual	Los Angele	HHDT	Dsl			IDLEX	
2021	Annual	Los Angele	LHDT1	Dsl			IDLEX	
2021	Annual	Los Angele	MHDT	Dsl			IDLEX	

pollutant	emission_rate
PM10	0.0929
PM10	0.03925
PM10	0.048257
PM10	0.018661
PM10	0.168064
PM10	0.065759
PM10	0.025302
PM10	0.806923
PM10	0.20278

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: County
Region: LOS ANGELES
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Population
LOS ANGE	2021	HHDT	Aggregate	Aggregate	GAS	58.22844
LOS ANGE	2021	HHDT	Aggregate	Aggregate	DSL	57397.74
LOS ANGE	2021	HHDT	Aggregate	Aggregate	NG	2453.781
LOS ANGE	2021	LHDT1	Aggregate	Aggregate	GAS	108026
LOS ANGE	2021	LHDT1	Aggregate	Aggregate	DSL	61698.85
LOS ANGE	2021	MHDT	Aggregate	Aggregate	GAS	14589.78
LOS ANGE	2021	MHDT	Aggregate	Aggregate	DSL	66201.04

HHDT% GAS/NG	0.04193
HHDT% DSL	0.95807
LHDT1% GAS	0.636477
LHDT1% DSL	0.363523
MHDT% GAS	0.180587
MHDT% DSL	0.819413

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APPENDIX 2.2:

RISK CALCULATIONS

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
-0.25 to 0 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00120	1.20E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.2E-07	1.3E-08	5.0E+00	1.4E-03	2.4E-04							
TOTAL								1.3E-08			2.4E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (age third trimester	10

Table 2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00120	1.20E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.3E-06	3.2E-07	5.0E+00	1.4E-03	2.4E-04							
TOTAL								3.2E-07			2.4E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00120	1.20E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	6.6E-07	3.0E-07	5.0E+00	1.4E-03	2.4E-04							
TOTAL								3.0E-07			2.4E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years	3

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00120	1.20E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	3.0E-07	4.6E-08	5.0E+00	1.4E-03	2.4E-04							
TOTAL								4.6E-08			2.4E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								0.05										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

Total Risk for All Age Bins (per million) 0.68

Table 5
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
25-Year Worker Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	8.81E-03	8.81E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.4E-06	5.2E-07	5.0E+00	1.4E-03	1.8E-03							
	TOTAL								5.3E-07			1.8E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
									0.53										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	250
exposure duration (years)	25
inhalation rate (L/kg-day))	230
inhalation absorption factor	1
averaging time (years)	70

Table 6
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
9-Year School Child Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	6.90E-04	6.90E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.9E-07	7.9E-08	5.0E+00	1.4E-03	1.4E-04							
	TOTAL								9.9E-08			1.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
									0.10										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	180
exposure duration (years)	9
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
age sensitivity factor (ages 4-13)	3

APPENDIX C: ENERGY TABLES

260 E. Baker St. | Suite 200 | Costa Mesa, CA 92626 | (949) 660-1994
urbanxroads.com

August 26, 2019

EPD Solutions, Inc.
2 Park Plaza, Suite 1120
Irvine, CA 92614

SUBJECT: PIONEER BOULEVARD DEVELOPMENT ENERGY TABLES

The following Energy Tables were prepared for the proposed Pioneer Boulevard Development (referred to as "Project") located at 9920 Pioneer Boulevard in the City of Santa Fe Springs. It is our understanding that the Project is proposed to include the development of 163,518 sf of general light industrial use within 3 buildings and will be developed in a single phase with an Opening Year of 2021.

PROJECT CONSTRUCTION POWER COST

Power Cost (per 1,000 SF of building per month of construction)	**Total Building Size** (1,000 SF)	**Construction Duration** (months)	**Total Project Construction Power Cost**
$2.32	163.518	14	$5,311.06

PROJECT CONSTRUCTION ELECTRICITY USAGE

Cost per kWh	**Total Project Construction Electricity Usage (kWh)**
$0.08	66,388

CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES

Activity/Duration	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption (gal. diesel fuel)
Demolition (20 days)	Concrete/Industrial Saws	81	1	8	0.73	473	511
	Excavators	158	3	8	0.38	1,441	1,558
	Rubber Tired Dozers	247	2	8	0.40	1,581	1,709
Site Preparation (10 days)	Rubber Tired Dozers	247	3	8	0.40	2,371	1,282
	Tractors/Loaders/Backhoes	97	4	8	0.37	1,148	621
Grading (20 days)	Excavators	158	1	8	0.38	480	519
	Graders	187	1	8	0.41	613	663
	Rubber Tired Dozers	247	1	8	0.40	790	854
	Tractors/Loaders/Backhoes	97	3	8	0.37	861	931
Building Construction (230 days)	Cranes	231	1	8	0.29	536	6,663
	Forklifts	89	3	8	0.20	427	5,311
	Generator Sets	84	1	8	0.74	497	6,182
	Tractors/Loaders/Backhoes	97	3	8	0.37	861	10,709
	Welders	46	1	8	0.45	166	2,059
Paving (20 days)	Pavers	130	2	8	0.42	874	944
	Paving Equipment	132	2	8	0.36	760	822
	Rollers	80	2	8	0.38	486	526
Architectural Coating (40 days)	Air Compressors	78	1	8	0.48	300	648
CONSTRUCTION FUEL DEMAND (gallons diesel fuel)							***42,513***

CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES

Construction Activity	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Demolition (20 days)	15	14.7	4,410	30.65	144
Site Preparation (10 days)	18	14.7	2,646	30.65	86
Grading (20 days)	15	14.7	4,410	30.65	144
Building Construction (230 days)	153	14.7	517,293	30.65	16,880
Paving (20 days)	15	14.7	4,410	30.65	144
Architectural Coating (40 days)	31	14.7	18,228	30.65	595
TOTAL CONSTRUCTION WORKER FUEL CONSUMPTION					***17,992***

CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHD TRUCKS)

Construction Activity	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Vendor					
Building Construction (230 days)	30	6.9	47,610	8.93	5,330
PROJECT MEDIUM-DUTY TRUCK TOTAL					***5,330***

CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION ESTIMATES (HHD TRUCKS)

Construction Activity	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Vendor					
Building Construction (230 days)	30	6.9	47,610	6.38	7,464
Hauling					
Demolition (20 days)	717	20	14,340	6.38	2,248
Grading (20 days)	1,188	20	23,760	6.38	3,725
PROJECT HEAVY-DUTY TRUCK TOTAL					***13,437***

PROJECT-GENERATED LIGHT-DUTY AUTO (LDA) TRAFFIC ANNUAL FUEL CONSUMPTION

Annual Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
2,247,531	30.65	73,338

PROJECT-GENERATED LIGHT-DUTY TRUCKS (LDT1)[1] TRAFFIC ANNUAL FUEL CONSUMPTION

Annual Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
176,856	25.95	6,815

PROJECT-GENERATED LIGHT-DUTY TRUCKS (LDT2)[2] TRAFFIC ANNUAL FUEL CONSUMPTION

Annual Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
821,839	24.03	34,203

PROJECT-GENERATED MEDIUM-DUTY VEHICLES (MDV) TRAFFIC ANNUAL FUEL CONSUMPTION

Annual Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
492,804	19.58	25,170

PROJECT-GENERATED LIGHT-HEAVY-DUTY TRUCKS (LHDT) TRAFFIC ANNUAL FUEL CONSUMPTION

Annual Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
942,843	13.26	71,118

PROJECT-GENERATED MEDIUM-HEAVY-DUTY TRUCKS (MHDT) TRUCK TRAFFIC ANNUAL FUEL CONSUMPTION

Annual Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
464,103	8.93	51,954

PROJECT-GENERATED HEAVY-HEAVY-DUTY TRUCKS (HHDT) TRUCK TRAFFIC ANNUAL FUEL CONSUMPTION

Annual Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
1,116,724	6.38	175,069

[1] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

[2] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (ALL VEHICLES)

Vehicle Type	Annual Miles Traveled	Estimated Annual Fuel Consumption (gallons)
LDA	2,247,531	73,338
LDT1	176,856	6,815
LDT2	821,839	34,203
MDV	492,804	25,170
LHD Trucks	942,843	71,118
MHD Trucks	464,103	51,954
HHD Trucks	1,116,724	175,069
TOTAL (ALL VEHICLES)	***6,262,701***	***437,667***

PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY

Natural Gas Demand	kBTU/year
General Light Industry	2,290,070
Other Asphalt Surfaces	0
Other Non-Asphalt Surfaces	0
Parking Lot	0
TOTAL PROJECT NATURAL GAS DEMAND	***2,290,070***
Electricity Demand	**kWh/year**
General Light Industry	1,552,600
Other Asphalt Surfaces	0
Other Non-Asphalt Surfaces	0
Parking Lot	8,448
TOTAL PROJECT ELECTRICITY DEMAND	***1,561,048***

APPENDIX D: PRELIMINARY GEOTECHNICAL EVALUATION AND DESIGN RECOMMENDATIONS

February 21, 2019 Project No. 18174-01

Mr. Rob Knapp
Brookhollow Group
151 Kalmus Drive, Suite F-1
Costa Mesa, CA 92626

Subject: ***Preliminary Geotechnical Evaluation and Design Recommendations for Proposed Pioneer Boulevard Industrial Development, Santa Fe Springs, California***

In accordance with your request and authorization, LGC Geotechnical, Inc. has performed a preliminary geotechnical evaluation for the proposed industrial development located on Pioneer Boulevard in the City of Santa Fe Springs, California. The purpose of our study was to evaluate the existing onsite geotechnical conditions and to provide preliminary geotechnical recommendations relative to the proposed industrial development.

Should you have any questions regarding this report, please do not hesitate to contact our office. We appreciate this opportunity to be of service.

Respectfully Submitted,

LGC Geotechnical, Inc.

Ryan Douglas, RCE 84840
Project Engineer

REGISTERED PROFESSIONAL ENGINEER
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Distribution: (1) Addressee (electronic copy)
(4) EPD Solutions, Inc. (3 wet-signed copies and 1 electronic copy)
Attn: Mr. Jeremy Krout

TABLE OF CONTENTS

Section ***Page***

1.0 INTRODUCTION 1
- 1.1 Purpose and Scope of Services 1
- 1.2 Project Description 1
- 1.3 Existing Conditions 1
- 1.4 Background 2
- 1.5 Subsurface Geotechnical Evaluation 4
- 1.6 Laboratory Testing 4

2.0 GEOTECHNICAL CONDITIONS 6
- 2.1 Regional Geology 6
- 2.2 Generalized Subsurface Conditions 6
- 2.3 Groundwater 6
- 2.4 Field Infiltration Testing 7
- 2.5 Seismic Design Criteria 7
- 2.6 Faulting 9
  - 2.6.1 Liquefaction and Dynamic Settlement 10
  - 2.6.2 Lateral Spreading 10
- 2.7 Expansion Potential 11
- 2.8 Static Settlement and Hydro-Consolidation 11

3.0 CONCLUSIONS 12

4.0 PRELIMINARY RECOMMENDATIONS 13
- 4.1 Site Earthwork 13
  - 4.1.1 Site Preparation 13
  - 4.1.2 Removal and Recompaction Depths and Limits 14
  - 4.1.3 Temporary Excavations 15
  - 4.1.4 Removal Bottoms and Subgrade Preparation 16
  - 4.1.5 Material for Fill 16
  - 4.1.6 Placement and Compaction of Fills 17
  - 4.1.7 Trench and Retaining Wall Backfill and Compaction 17
  - 4.1.8 Shrinkage and Subsidence 18
- 4.2 Preliminary Foundation Recommendations 18
  - 4.2.1 Slab Design and Construction 19
  - 4.2.2 Foundation Design Parameters 20
  - 4.2.3 Foundation Construction 20
  - 4.2.4 Lateral Load Resistance 21
- 4.3 Lateral Earth Pressures for Retaining Walls (Including Truck Docks) 21
- 4.4 Soil Corrosivity 23
- 4.5 Control of Surface Water and Drainage Control 23
- 4.6 Subsurface Water Infiltration 24
- 4.7 Preliminary Asphalt Concrete Pavement Sections 25
- 4.8 Preliminary Portland Cement Concrete Pavement Sections 25
- 4.9 Nonstructural Concrete Flatwork 26

4.10 Geotechnical Plan Review.....27
4.11 Geotechnical Observation and Testing During Construction 27

5.0 LIMITATIONS 29

LIST OF ILLUSTRATIONS, TABLES, AND APPENDICES

Figures

Figure 1 – Site Location Map (Page 3)
Figure 2 – Geotechnical Exploration Location Map (Rear of Text)
Figure 3 – Retaining Wall Backfill Detail (Rear of Text)

Tables

Table 1 – Summary of Field Percolation Testing (Page 7)
Table 2 – Seismic Design Parameters for Structures with a Period of Vibration ≤ 0.5 Second (Page 8)
Table 3 – Lateral Earth Pressures – Approved Sandy Soils (Page 21)
Table 4 – Reduction Factors Applied to Measured Infiltration Rate (Page 24)
Table 5 – Preliminary Pavement Section Options (Page 25)
Table 6 – Preliminary PCC Pavement Section Options (Page 26)
Table 7 – Preliminary Geotechnical Parameters for Nonstructural Concrete Flatwork Placed on Very Low to Low Expansion Potential Subgrade (Page 27)

Appendices

Appendix A – References
Appendix B – Field Exploration Logs
Appendix C – Laboratory Test Results
Appendix D – Infiltration Test Data
Appendix E – Liquefaction Analysis
Appendix F – General Earthwork and Grading Specifications

1.0 INTRODUCTION

1.1 Purpose and Scope of Services

This report presents the results of our preliminary geotechnical evaluation for the proposed approximately 8.3-acre industrial development located on Pioneer Boulevard in the City of Santa Fe Springs, California. Refer to the Site Location Map (Figure 1).

The purpose of our study was to provide a preliminary geotechnical evaluation relative to the proposed industrial development. As part of our scope of work, we have: 1) reviewed available geotechnical background information including in-house regional geologic maps and published geotechnical literature pertinent to the site (Appendix A); 2) performed a limited subsurface geotechnical evaluation of the site consisting of the excavation of seven small-diameter borings ranging in depth from approximately 10 to 50 feet below existing ground surface; 3) performed three field infiltration tests; 4) performed laboratory testing of select soil samples obtained during our subsurface evaluation; and 5) prepared this preliminary geotechnical summary report presenting our preliminary findings, conclusions and recommendations for the development of the proposed project.

1.2 Project Description

Based on the preliminary site plan (RGA, 2018), the proposed improvements include the construction of three industrial concrete tilt-up warehouse buildings ranging in size from approximately 28,146 to 103,939 square feet. The buildings are to be supported on conventional shallow foundations with concrete slab-on-grade floors. Drive ways, parking spaces, loading dock areas, trash enclosures and water quality basins/"wetland mods" are proposed throughout the site. Design cuts and fills (not including required remedial grading) are anticipated to be on the order of 2 to 4 feet. The proposed building structures are anticipated to be at-grade concrete tilt-up structures with maximum column and wall loads of approximately 100 kips and 5 kips per linear foot, respectively. Please note no structural loads were provided to us at the time of this report.

The recommendations given in this report are based upon the estimated structural loading, grading and layout information above. We understand that the project plans are currently being developed at this time; LGC Geotechnical should be provided with updated project plans and any changes to structural loads when they become available, in order to either confirm or modify the recommendations provided herein.

1.3 Existing Conditions

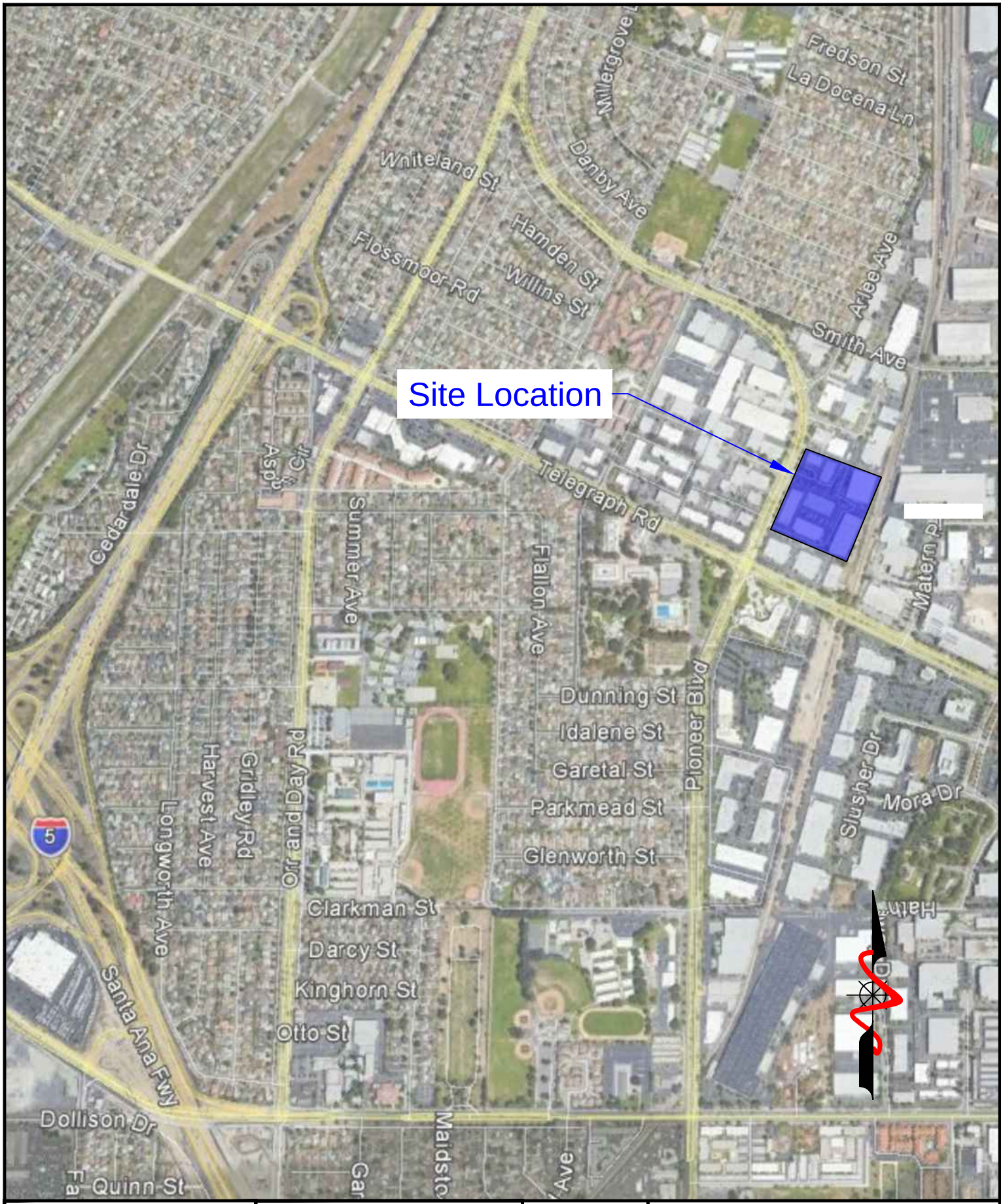
The approximately 8.3-acre rectangular-shaped site is bound to the north and south by existing commercial and industrial developments, to the east by Southern Pacific railroad lines and to the west by Pioneer Boulevard. The site is currently an existing commercial and industrial development consisting of seven industrial/commercial structures with surrounding asphalt concrete driveways and parking areas. Entry to the site is from Pioneer Boulevard along the

western edge of the development. The current topography consists of a relatively flat pad for the majority of the site.

The site is relatively flat with elevations ranging from approximately 127 to 129 feet above mean sea level. There is an approximately 15 to 20-foot tall slope ascending up to the Southern Pacific railroad lines east of the project site. This slope is part of the railroad truck crossing leading up to the raised railroad bridge abutment crossing to the south of the site.

1.4 Background

The history of the subject site, dating back to the late nineteenth century, was reviewed using available historical aerial photographs and topographic maps (Historic Aerials, 2019). In 1896, available topographic maps indicate that the subject site was comprised of a north south trending stream and marsh that drained into the historic Little Lake. The Whittier Branch of the Southern Pacific Rail Road existed along its present alignment east of the subject site. The 1923 topographic map indicates numerous oil wells dotted the subject site. An unnamed road along the present-day alignment of Pioneer Boulevard is shown west of the subject site. The 1951 topographic map indicates that roads associated with oil production are present on the subject site. The 1953 historic aerial photograph indicates that the railroad was under construction to change its alignment less than a mile north of the subject site. The 1953 aerial photograph also shows the site as mostly undeveloped land with a few man-made roads associated with oil production crossing the site. There are oil wells present on a graded pad in the northeastern portion of the subject site and oil tanks located just offsite, to the southwest and west. The land south of the subject site was being used for agriculture. The 1963 aerial photograph shows that the road along the western boundary of the subject site was paved, farming had ceased south of the subject site, and that the railroad was in use again. The 1972 aerial photograph indicates that oil related activities on the subject site had ceased. The oil tanks were removed and the man-made roads had faded from disuse. A 1975 historic aerial photograph shows the subject site had been graded to its present condition. Seven industrial buildings and associated improvements are visible and Pioneer Boulevard was graded to its present alignment.



PROJECT NAME	Pioneer - Santa Fe Springs
PROJECT NO.	18174-01
ENG. / GEOL.	RLD
SCALE	Not to Scale
DATE	February 2019

LGC Geotechnical, Inc.

FIGURE 1
Site Location Map

1.5 Subsurface Geotechnical Evaluation

LGC Geotechnical performed a limited subsurface geotechnical evaluation of the site consisting of the excavation of seven hollow-stem auger borings to evaluate onsite geotechnical conditions.

Seven hollow-stem borings (HS-1 through HS-4 & I-1 through I-3) were drilled to depths ranging from approximately 10 to 50 feet below existing grade. An LGC Geotechnical staff geologist observed the drilling operations, logged the borings, and collected soil samples for laboratory testing. The borings were excavated by Calpac Drilling under subcontract to LGC Geotechnical using a truck-mounted drill rig equipped with 8-inch-diameter hollow-stem augers. Driven soil samples were collected by means of the Standard Penetration Test (SPT) and Modified California Drive (MCD) sampler generally obtained at 2.5 to 5-foot vertical increments. The MCD is a split-barrel sampler with a tapered cutting tip and lined with a series of 1-inch-tall brass rings. The SPT sampler (1.4-inch ID) and MCD sampler (2.4-inch ID, 3.0-inch OD) were driven using a 140-pound automatic hammer falling 30 inches to advance the sampler a total depth of 18 inches. The raw blow counts for each 6-inch increment of penetration were recorded on the boring logs. Bulk samples of the near-surface soils were also collected and logged at select borings for laboratory testing. At the completion of drilling, the borings were backfilled with the native soil cuttings and tamped. Boring holes were patched with cold patch asphalt. Some settlement of the backfill soils may occur over time.

Infiltration testing was performed within three of the borings (I-1 through I-3) to depths of 10 feet below existing grade. An LGC Geotechnical staff geologist installed standpipes, backfilled the borings with crushed rock and pre-soaked the infiltration holes prior to testing. Infiltration testing was performed per the County of Los Angeles testing guidelines. The locations were subsequently backfilled with native soils at the completion of testing.

The approximate locations of our subsurface explorations are provided on the Geotechnical Exploration Location Map (Figure 2). The boring logs are provided in Appendix B.

1.6 Laboratory Testing

Representative bulk and driven (relatively undisturbed) samples were obtained for laboratory testing during our field evaluation. Laboratory testing included in-situ moisture content and in-situ dry density, Atterberg Limits, fines content, expansion index, consolidation, laboratory compaction, direct shear and corrosion (sulfate, chloride, pH and minimum resistivity).

The following is a summary of the laboratory test results:

- Dry density of the samples collected ranged from approximately 70 pounds per cubic foot (pcf) to 138 pcf, with an average of 97 pcf. Field moisture contents ranged from approximately 3 to 59 percent, with an average of 15 percent.
- Two fines content tests were performed and indicated a fines content (passing No. 200 sieve) of approximately 37 and 49 percent. Based on the Unified Soils Classification System (USCS), the tested samples would be classified as “coarse-grained.”
- One Atterberg Limit (liquid limit and plastic limit) test was performed. Results indicated a Plasticity Index (PI) value of 15.

- One direct shear test was performed. The plot is provided in Appendix C.
- Two consolidation tests were performed. The load versus deformation plots are provided in Appendix C.
- One swell/collapse test was performed. The plot is provided in Appendix C.
- One laboratory compaction test of a near surface sample indicated a maximum dry density of 115.5 pcf with an optimum moisture content of 14.0 percent.
- Expansion potential testing indicated an expansion index value of 14, corresponding to "Very Low" expansion potential.
- Corrosion testing indicated soluble sulfate contents of approximately 0.016 percent, a chloride content of 85 parts per million (ppm), pH of 8.2, and a minimum resistivity of 5,480 ohm-centimeters.

A summary of the laboratory test results is presented in Appendix C. The moisture and dry density results are presented on the boring logs in Appendix B.

2.0 GEOTECHNICAL CONDITIONS

2.1 Geologic Conditions

The site is located in a coastal, sedimentary basin called the Downey Plain, within the Peninsular Ranges Geomorphic Province. The site is located on a laterally extensive young alluvial fan deposits interpreted to be approximately Holocene and late Pleistocene age (CGS, 2016). The sediments in the Downy Plain are primarily derived from the Rio Hondo and San Gabriel River drainages that run south from the San Gabriel Valley through an area called the Whittier Narrows. The northwest trending Puente Hills, several miles to the north of the subject site, are dissected by the two rivers at the Whittier Narrows. The subject site is located just east of the San Gabriel River Channel. Both rivers have areas of percolation basins that seasonally recharge the local groundwater. The Puente Hills, located north of the subject site, were uplifted and deformed along the Whittier section of the Elsinore Fault Zone. The region has a complex geologic history influenced by periods of uplift, folding, faulting, and alluvial deposition; however, no faults are known to transect the site.

2.2 Generalized Subsurface Conditions

The subsurface evaluation indicated that site soils below a depth of recommended remedial grading will generally consist of medium dense to very dense sands, silty sands, and clayey sands with varying amounts of medium stiff to hard silts and clays to the maximum explored depth of approximately 50 feet below existing grade.

It should be noted that the borings are only representative of the location and time where/when they are performed and varying subsurface conditions may exist outside of the performed location. In addition, subsurface conditions can change over time. The soil descriptions provided above should not be construed to mean that the subsurface profile is uniform and that soil is homogeneous within the project area. For details on the stratigraphy at the exploration locations, refer to Appendix B.

2.3 Groundwater

Groundwater was not encountered in any of our borings to a maximum depth of approximately 50 feet below existing grade. Historic high groundwater is estimated to be about 10 feet below existing grade (CGS, 1998).

Seasonal fluctuations of groundwater elevations should be expected over time. In general, groundwater levels fluctuate with the seasons and local zones of perched groundwater may be present due to local seepage caused by irrigation and/or recent precipitation. Local perched groundwater conditions or surface seepage may develop once site development is completed.

2.4 Field Infiltration Testing

Three field percolation tests were performed in Borings I-1, I-2 and I-3 to approximate depths of 10 feet below existing grade. The approximate locations are shown on the Geotechnical Exploration Location Map (Figure 2). The borings for the infiltration tests were excavated using a drill rig equipped with 8-inch diameter hollow-stem augers. Estimation of infiltration rates was accomplished in general accordance with the guidelines set forth by the County of Los Angeles (2017). A 3-inch diameter perforated PVC pipe was placed in the borehole and the annulus was backfilled with gravel. The infiltration wells were pre-soaked prior to testing. During the pre-test, water was added to the borings and was observed for 10 and 30 minutes. Water remained in the borings after 30 minutes in each of the three percolation test borings; therefore, the procedure for fine-grained soils was followed. One reading was recorded every 30 minutes from a fixed reference point until 8 readings were recorded. At the completion of infiltration testing, the pipe was removed and backfilled with cuttings and tamped. Infiltration holes were patched with cold patch asphalt. Some settlement of the backfill should be expected.

Based on the County of Los Angeles testing guidelines, the raw infiltration is calculated by dividing the volume of water discharged by the surface area of the test section (including sidewalls plus the bottom of the boring), in a given amount of time. The average of the stabilized infiltration rate over the last three consecutive readings is the measured infiltration rate. The measured infiltration rates are provided in Table 1 below. Please note that the values provided in Table 1 do not include reduction factors for the test procedure, site variability and long-term siltation plugging that are required for the design infiltration rate, refer to Table 5 located in Section 4.7. Infiltration tests were performed using relatively clean water free of particulates, silt, etc. Refer to the infiltration test data provided in Appendix D.

TABLE 1

Summary of Field Percolation Testing

Infiltration Test Location	Measured Infiltration Rate* (inch/hr)
I-1	0.6
I-2	0.5
I-3	0.8

*Does Not Include Required Reduction Factors, refer to Table 4, Section 4.6.

2.5 Seismic Design Criteria

The site seismic characteristics were evaluated per the guidelines set forth in Chapter 16, Section 1613 of the 2016 California Building Code (CBC). Since the site contains soils that are susceptible to liquefaction (refer to above Section "Liquefaction and Dynamic Settlement"), ASCE 7 which has been adopted by the CBC requires that site soils be assigned Site Class "F" and a site-specific response spectrum be performed. However, in accordance with Section 20.3.1 of ASCE 7, if the fundamental periods of vibration of the planned structure are equal to or less than 0.5 second, a site-specific response spectrum is not required and ASCE 7/2016 CBC site class and seismic parameters may be used in lieu of a site-specific response spectrum. **It**

should be noted that the seismic parameters provided herein are not applicable for any structure having a fundamental period of vibration greater than 0.5 second. Representative site coordinates of latitude 33.9463 degrees north and longitude -118.0791 degrees west were utilized in our analyses. The maximum considered earthquake (MCE) spectral response accelerations (S_{MS} and S_{M1}) and adjusted design spectral response acceleration parameters (S_{DS} and S_{D1}) for Site Class D are provided in Table 2 below.

TABLE 2

Seismic Design Parameters for Structures with a Period of Vibration ≤ 0.5 Second

Selected Parameters from 2016 CBC, Section 1613 - Earthquake Loads	Seismic Design Values
Site Class per Chapter 20 of ASCE 7	D*
Risk-Targeted Spectral Acceleration for Short Periods (S_S)**	2.074g
Risk-Targeted Spectral Accelerations for 1-Second Periods (S_1)**	0.734g
Site Coefficient F_a per Table 1613.3.3(1)	1.0
Site Coefficient F_v per Table 1613.3.3(2)	1.5
Site Modified Spectral Acceleration for Short Periods (S_{MS}) for Site Class D [Note: $S_{MS} = F_aS_S$]	2.074g
Site Modified Spectral Acceleration for 1-Second Periods (S_{M1}) for Site Class D [Note: $S_{M1} = F_vS_1$]	1.101g
Design Spectral Acceleration for Short Periods (S_{DS}) for Site Class D [Note: $S_{DS} = (^2/_3)S_{MS}$]	1.382g
Design Spectral Acceleration for 1-Second Periods (S_{D1}) for Site Class D [Note: $S_{D1} = (^2/_3)S_{M1}$]	0.734g
Mapped Risk Coefficient at 0.2 sec Spectral Response Period, C_{RS} (per ASCE 7)	0.940
Mapped Risk Coefficient at 1 sec Spectral Response Period, C_{R1} (per ASCE 7)	0.966

* Site is Class F, seismic parameters provided herein are only applicable for structure period ≤ 0.5 second, refer to discussion above.

** From SEAOC, 2019

Section 1803.5.12 of the 2016 CBC (per Section 11.8.3 of ASCE 7) states that the maximum considered earthquake geometric mean (MCE_G) Peak Ground Acceleration (PGA) should be used for liquefaction potential. The PGA_M for the site is equal to 0.803g (SEAOC, 2019).

A deaggregation of the PGA based on a 2,475-year average return period indicates that an earthquake magnitude of 7.7 at a distance of approximately 8.6 km from the site would contribute the most to this ground motion (USGS, 2008).

2.6 Faulting

California is located on the boundary between the Pacific and North American Lithospheric Plates. The average motion along this boundary is on the order of 50-mm/yr in a right-lateral sense. The majority of the motion is expressed at the surface along the northwest trending San Andreas Fault Zone with lesser amounts of motion accommodated by sub-parallel faults located predominantly west of the San Andreas including the Elsinore, Newport-Inglewood, Rose Canyon, and Coronado Bank Faults. Within Southern California, a large bend in the San Andreas Fault north of the San Gabriel Mountains has resulted in a transfer of a portion of the right-lateral motion between the plates into left-lateral displacement and vertical uplift. Compression south and west of the bend has resulted in folding, left-lateral, reverse thrust faulting, and regional uplift creating the east-west trending Transverse Ranges and several east-west trending faults. Further south within the Los Angeles Basin, "blind thrust" faults are believed to have developed below the surface also as a result of this compression, which have resulted in earthquakes such as the 1994 Northridge event along faults with little to no surface expression.

Prompted by damaging earthquakes in Northern and Southern California, State legislation and policies concerning the classification and land-use criteria associated with faults have been developed. The Alquist-Priolo Earthquake Fault Zoning Act was implemented in 1972 to prevent the construction of urban developments across the trace of active faults. California Geologic Survey Special Publication 42 was created to provide guidance for following and implementing the law requirements. Special Publication 42 was most recently revised in 2018 (CGS, 2018). According to the State Geologist, an "active" fault is defined as one which has had surface displacement within Holocene time (roughly the last 11,700 years). Regulatory Earthquake Fault Zones have been delineated to encompass traces of known, Holocene-active faults to address hazards associated with surface fault rupture within California. Where developments for human occupation are proposed within these zones, the state requires detailed fault evaluations be performed so that engineering-geologists can identify the locations of active faults and recommend setbacks from locations of possible surface fault rupture.

The subject site is not located within an Alquist-Priolo Earthquake Fault Zone and no faults were identified on the site during our site evaluation. The possibility of damage due to ground rupture is considered low since no active faults are known to cross the site. The closest known active faults are associated with the Whittier section of the Elsinore Fault Zone, located approximately 6.2 miles northeast of the site; the East Montebello Fault Zone, approximately 6.7 miles north of the site; the Unnamed West Coyote Hills Fault, approximately 7.4 miles east of the site; and the Newport Inglewood Fault Zone, approximately 10.7 miles southwest of the site.

Secondary effects of seismic shaking resulting from large earthquakes on the major faults in the Southern California region, which may affect the site, include ground lurching and shallow ground rupture, soil liquefaction, and dynamic settlement. These secondary effects of seismic shaking are a possibility throughout the Southern California region and are dependent on the

distance between the site and causative fault and the onsite geology. A discussion of these secondary effects is provided in the following sections.

2.6.1 Liquefaction and Dynamic Settlement

Liquefaction is a seismic phenomenon in which loose, saturated, granular soils behave similarly to a fluid when subject to high-intensity ground shaking. Liquefaction occurs when three general conditions coexist: 1) shallow groundwater; 2) low density non-cohesive (granular) soils; and 3) high-intensity ground motion. Studies indicate that saturated, loose near-surface cohesionless soils exhibit the highest liquefaction potential, while dry, dense, cohesionless soils and cohesive soils exhibit low to negligible liquefaction potential. In general, cohesive soils are not considered susceptible to liquefaction, depending on their plasticity and moisture content (Bray & Sancio, 2006). Effects of liquefaction on level ground include settlement, sand boils, and bearing capacity failures below structures. Dynamic settlement of dry loose sands can occur as the sand particles tend to settle and densify as a result of a seismic event.

Based on our review of the State of California Seismic Hazard Zone for liquefaction potential (CGS, 1999), the site is located within a liquefaction hazard zone. In general, site soils are dense and not susceptible to liquefaction. However, isolated loose and medium dense sand layers are present and considered susceptible to liquefaction. The recent explored groundwater elevation of greater than 50 feet below existing grade and historic high groundwater elevation of 10 feet below existing grade were both used in the liquefaction analysis. The liquefaction evaluation was performed using data from boring HS-1. Liquefaction potential was evaluated using the procedures outlined by Special Publication 117A (SCEC, 1999 & CGS, 2008) and based on the seismic criteria of the 2016 California Building Code (CBC) and historic high groundwater depth. Liquefaction induced settlement was estimated using the PGA_M per the 2016 CBC and a moment magnitude of 7.7 (USGS, 2008).

Results indicate total seismic settlement on the order of 1-inch or less. Differential seismic settlement can be estimated as half of the total estimated settlement over a horizontal span of about 40 feet. Seismically induced settlements were estimated by the procedure outlined by Tokimatsu and Seed (1987). Liquefaction calculations are provided in Appendix E.

2.6.2 Lateral Spreading

Lateral spreading is a type of liquefaction-induced ground failure associated with the lateral displacement of surficial blocks of sediment resulting from liquefaction in a subsurface layer. Once liquefaction transforms the subsurface layer into a fluid mass, gravity plus the earthquake inertial forces may cause the mass to move downslope towards a free face (such as a river channel or an embankment). Lateral spreading may cause large horizontal displacements and such movement typically damages pipelines, utilities, bridges, and structures.

Due to the very gentle gradient across the site and lack of nearby "free face" conditions, the potential for lateral spreading is considered low.

2.7 Expansion Potential

Based on the results of our recent laboratory testing, site soils are anticipated to have a "Very Low" to "Low" expansion potential. Final expansion potential of site soils should be determined at the completion of grading. Results of expansion testing at finish grades will be utilized to confirm final foundation design.

2.8 Static Settlement and Hydro-Consolidation

After completion of grading, the subsurface conditions will consist of engineered fill placed over alluvial fan deposits. Static settlements will be induced by subjecting the finish grades to building loads. Anticipated static settlement for the proposed industrial concrete tilt-up warehouse buildings are presented in Section 4.2, "Preliminary Foundation Recommendations". Static settlement should occur relatively quickly.

In addition to static settlement, the presence of potentially collapsible soils was evaluated using data obtained from our recent exploratory borings and laboratory testing. The collapse potential (or hydro-collapse) of the tested samples was approximately 0.05 percent or less, which is considered to be negligible.

3.0 CONCLUSIONS

Based on the results of our geotechnical evaluation, it is our opinion that the proposed development is feasible from a geotechnical standpoint, provided the following conclusions and recommendations are implemented.

The following is a summary of the primary geotechnical factors that may affect future development of the site:

- In general, our borings and indicate that the site soils below a depth of recommended remedial grading will generally consist of medium dense to very dense sands, silty sands, and clayey sands with varying amounts of medium stiff to hard silts and clays to the maximum explored depth of approximately 50 feet below existing grade. The near-surface soils are generally collapsible and are not suitable for the planned improvements in their present condition (refer to Section 4.1).
- Groundwater was not encountered during our subsurface evaluation at a maximum explored depth of approximately 50 feet below existing ground surface. Historic high groundwater is estimated to be about 10 feet below existing grade (CGS, 1998).
- The subject site is not located within a State of California Earthquake Fault Zone (Alquist-Priolo). The main seismic hazard that may affect the site is ground shaking from one of the active regional faults. The subject site will likely experience strong seismic ground shaking during its design life.
- Site soils are considered susceptible to liquefaction. The site is located in a State of California Seismic Hazard Zone for liquefaction. Total dynamic settlement is estimated to be on the order of 1-inch or less. Differential dynamic settlement can be estimated at half of the total settlement over a horizontal span of 40 feet for design of foundations.
- Based on the results of preliminary laboratory testing, site soils are anticipated to have “Very Low” to “Low” expansion potential. Mitigation measures are required for foundations and site improvements like concrete flatwork to minimize the impacts of expansive site soils. Final design expansion potential must be determined at the completion of grading.
- From a geotechnical perspective, the existing onsite soils are suitable material for use as general fill (not retaining wall backfill), provided that they are relatively free from oversized material (larger than 8 inches in maximum dimension), construction debris, and significant organic material.
- Some portions of the onsite soils have high fines content and are not suitable for backfill of site retaining walls. Therefore, import and/or select grading and stockpiling of onsite sandy soils meeting project recommendations may be required.
- Excavations into the existing site soils should be feasible with heavy construction equipment in good working order.

4.0 PRELIMINARY RECOMMENDATIONS

The following recommendations are to be considered preliminary and should be confirmed upon completion of grading and earthwork operations. In addition, they should be considered minimal from a geotechnical viewpoint, as there may be more restrictive requirements from the architect, structural engineer, building codes, governing agencies, or the owner.

It should be noted that the following geotechnical recommendations are intended to provide sufficient information to develop the site in general accordance with the 2016 CBC requirements. With regard to the potential occurrence of potentially catastrophic geotechnical hazards such as fault rupture, earthquake-induced landslides, liquefaction, etc. the following geotechnical recommendations should provide adequate protection for the proposed development to the extent required to reduce seismic risk to an "acceptable level." The "acceptable level" of risk is defined by the California Code of Regulations as "that level that provides reasonable protection of the public safety, though it does not necessarily ensure continued structural integrity and functionality of the project" [Section 3721(a)]. Therefore, repair and remedial work of the proposed improvements may be required after a significant seismic event. With regards to the potential for less significant geologic hazards to the proposed development, the recommendations contained herein are intended as a reasonable protection against the potential damaging effects of geotechnical phenomena such as expansive soils, fill settlement, groundwater seepage, etc. It should be understood, however, that although our recommendations are intended to maintain the structural integrity of the proposed development and structures given the site geotechnical conditions, they cannot preclude the potential for some cosmetic distress or nuisance issues to develop as a result of the site geotechnical conditions.

The geotechnical recommendations contained herein must be confirmed to be suitable or modified based on the actual as-graded conditions.

4.1 Site Earthwork

We anticipate that earthwork at the site will consist of demolition of the existing site improvements, required earthwork removals, subgrade preparation, precise grading and construction of the proposed new improvements, including the industrial tilt-up buildings, parking areas, subsurface utilities, water quality basins/wetlands, etc.

We recommend that earthwork be performed in accordance with the following recommendations, future grading plan review report(s), the 2016 CBC/City of Santa Fe Springs grading requirements, and the General Earthwork and Grading Specifications included in Appendix F. In case of conflict, the following recommendations shall supersede those included in Appendix F. The following recommendations should be considered preliminary and may be revised based upon future evaluation and review of the project plans and/or based on the actual conditions encountered during site grading/construction.

4.1.1 Site Preparation

Prior to grading of areas to receive structural fill or engineered improvements, the areas should be cleared of existing building structures, asphalt, surface obstructions, and

demolition debris. Vegetation and debris should be removed and properly disposed of off-site. Holes resulting from the removal of buried obstructions, which extend below proposed finish grades, should be replaced with suitable compacted fill material. Any abandoned sewer or storm drain lines should be completely removed and replaced with properly placed compacted fill. Deeper demolition may be required in order to remove existing foundations. We recommend the trenches associated with demolition which extend below the remedial grading depth be backfilled and properly compacted prior to the demolition contractor leaving the site.

If cesspools or septic systems are encountered during earthwork, they should be removed in their entirety. The resulting excavation should be backfilled with properly compacted fill soils. As an alternative, cesspools can be backfilled with lean sand-cement slurry. Any encountered wells should be properly abandoned in accordance with regulatory requirements. At the conclusion of the clearing operations, a representative of LGC Geotechnical should observe and accept the site prior to further grading.

4.1.2 Removal and Recompaction Depths and Limits

In order to provide a relatively uniform bearing condition for the planned building structures and improvements, we recommend the site soils be removed and recompacted. All existing onsite artificial fill shall be fully removed to suitable, competent native materials prior to placement of fill to design grades. Subsurface site soils should be removed and recompacted according to the criteria outlined below. Updated recommendations may be required based on additional field evaluation, changes to building layouts and actual structural loads.

Industrial Buildings: We recommend that soils within the proposed building pads be temporarily removed and recompacted to a minimum depth of 8 feet below existing grade or 3 feet beneath the base of the foundations, whichever is deeper. Where adequate space is available, the base of removal and recompaction bottoms should extend laterally a minimum distance equal to the depth of removal and recompaction below finish grade or at a minimum distance of 8 feet beyond the edges of the proposed building foundations, whichever is larger.

Minor Site Structures: For minor site structures such as free-standing, screen walls, trash enclosures, etc., removal and recompaction should extend at least 5 feet beneath the existing grade or 2 feet beneath the base of foundations, whichever is deeper. In general, the envelope for removal and recompaction should extend laterally a minimum distance of 5 feet beyond the edges of the proposed improvements mentioned above, where space permits.

Pavement and Hardscape: Within pavement areas, removal and recompaction should extend to a depth of at least 5 feet below the existing grade or 2 feet beneath the finished subgrade (i.e., beneath planned aggregate base/asphalt concrete or PCC). Within hardscape areas, removal and recompaction should extend to a depth of at least 2 feet below the existing grade or 1-foot beneath the finished subgrade (i.e., beneath planned concrete).

Local conditions may be encountered during excavation that could require deep remedial grading beyond the above noted minimum in order to obtain an acceptable subgrade. The actual depths and lateral extents of grading will be determined by the geotechnical consultant, based on subsurface conditions encountered during grading. Removal and recompaction areas should be accurately staked in the field by the Project Surveyor.

4.1.3 Temporary Excavations

Temporary excavations should be performed in accordance with project plans, specifications, and all Occupational Safety and Health Administration (OSHA) requirements. Excavations should be laid back or shored in accordance with OSHA requirements before personnel or equipment are allowed to enter. Based on our field investigation, the majority of site soils are anticipated to be OSHA Type "B" soils (refer to the attached boring logs). Sandy soils are present and should be considered susceptible to caving. Raveling of the sandy soils should be anticipated for temporary slopes. Flatter slope inclinations should be considered if raveling cannot be tolerated. The exposed slope surface may be kept surficially moist (but not saturated) during construction to reduce (not eliminate) potential sloughing. Soil conditions should be regularly evaluated during construction to verify conditions are as anticipated. The contractor shall be responsible for providing the "competent person" required by OSHA standards to evaluate soil conditions. Close coordination with the geotechnical consultant should be maintained to facilitate construction while providing safe excavations. Excavation safety is the sole responsibility of the contractor.

Where proposed building structures or improvements will be adjacent to property lines, the potential for impacting existing offsite improvements may be reduced by performing "ABC" slot cuts while performing earthwork removal and recompaction. Slot cuts should be backfilled immediately with properly compacted fill to finish grade prior to excavation of the adjacent two slots. Please note sands susceptible to caving are present at the site. Recommendations for slot cut dimensions should be evaluated during grading. Protection of the existing offsite improvements during grading is the responsibility of the contractor.

Surcharge loads (vehicular traffic, soil stockpiles, construction equipment, etc.) should be set back from the perimeter of excavations a minimum distance equivalent to a 1:1 projection from the bottom of the excavation or 5 feet, whichever is greater, unless the cut is properly shored and designed for the applicable surcharge load. Once an excavation has been initiated, it should be backfilled as soon as practical. Prolonged exposure of temporary excavations may result in some localized instability. Excavations should be planned so that they are not initiated without sufficient time to shore/fill them prior to weekends, holidays, or forecasted rain.

It should be noted that any excavation that extends below a 1:1 (horizontal to vertical) projection of an existing foundation will remove existing support of the structure foundation. If requested, temporary shoring parameters will be provided.

4.1.4 Removal Bottoms and Subgrade Preparation

In general, removal bottoms and areas to receive compacted fill should be scarified to a minimum depth of 6 inches, brought to a near-optimum moisture condition (generally within optimum and 2 percent above optimum moisture content), and re-compacted per project recommendations.

Removal bottoms and areas to receive fill should be observed and accepted by the geotechnical consultant prior to subsequent fill placement. Soil subgrade for planned footings and improvements (e.g., slabs, etc.) should be firm and competent.

4.1.5 Material for Fill

From a geotechnical perspective, the onsite soils are generally considered suitable for use as general compacted fill, provided they are screened of significant organic materials, construction debris and oversized material (8 inches in greatest dimension).

From a geotechnical viewpoint, any required import soils for general fill (i.e., non-retaining wall backfill) should consist of soils of "Very Low" to "Low" expansion potential (expansion index 50 or less based on American Society for Testing and Materials [ASTM] D 4829), and free of significant organic materials, construction debris and any material greater than 3 inches in maximum dimension. Import for any required retaining wall backfill should meet the criteria outlined in the following paragraph. Source samples should be provided to the geotechnical consultant for laboratory testing a minimum of four working days prior to any planned importation.

Retaining wall backfill should consist of imported or onsite free draining, clean granular (sandy) soils with a maximum of 35 percent fines (passing the No. 200 sieve) per ASTM Test Method D1140 (or ASTM D6913/D422) and a "Very Low" expansion potential (EI of 20 or less per ASTM D4829). Soils should also be screened of significant organic materials, construction debris, and any material greater than 3 inches in maximum dimension. The site contains soils that are not suitable for retaining wall backfill due to their fines content; therefore, select grading and stockpiling and/or import of soils meeting the criteria outlined above will be required by the contractor for obtaining suitable retaining wall backfill soil. These preliminary findings should be confirmed during grading.

Aggregate base (crushed aggregate base or crushed miscellaneous base) should conform to the requirements of Section 200-2 of the most recent version of the Standard Specifications for Public Works Construction ("Greenbook") for untreated base materials (except processed miscellaneous base) and/or City of Santa Fe Springs requirements.

The placement of inert demolition materials in compacted fill is acceptable from a geotechnical viewpoint provided the demolition material is broken up into pieces not larger than typically used for aggregate base (approximately 1-inch in maximum dimension) and well blended into fill soils with essentially no resulting voids. Demolition material placed in fills must be free of construction debris (wood, organics, etc.) and reinforcing steel. If asphalt concrete fragments will be incorporated into the demolition materials, approval from an environmental viewpoint may be required and is not the

purview of the geotechnical consultant. From our previous experience, we recommend that asphalt concrete fragments be limited to fill areas within planned parking and drive aisle areas (i.e., not within building pad areas).

4.1.6 Placement and Compaction of Fills

Material to be placed as fill should be brought to near-optimum moisture content (generally within optimum and 2 percent above optimum moisture content) and recompacted to at least 90 percent relative compaction (per ASTM D1557). Moisture conditioning of site soils will be required in order to achieve adequate compaction. Drying and or mixing of very moist soils will be required prior to reusing the materials in compacted fills. Soils are also present that will require additional moisture in order to achieve the required compaction.

The optimum lift thickness to produce a uniformly compacted fill will depend on the type and size of compaction equipment used. In general, fill should be placed in uniform lifts not exceeding 8 inches in compacted thickness. Each lift should be thoroughly compacted and accepted prior to subsequent lifts. Generally, placement and compaction of fill should be performed in accordance with local grading ordinances and with observation and testing performed by the geotechnical consultant. Oversized material as previously defined should be removed from site fills.

During backfill of excavations, the fill should be properly benched into firm and competent soils of temporary backcut slopes as it is placed in lifts.

Aggregate base material should be compacted to at least 95 percent relative compaction at or slightly above optimum moisture content per ASTM D1557. Subgrade below aggregate base should be compacted to at least 90 percent relative compaction per ASTM D1557 at near-optimum moisture content (generally within optimum and 2 percent above optimum moisture content).

If gap-graded ¾-inch rock is used for backfill (around storm drain storage chambers, retaining wall backfill, etc.) it will require compaction. Rock shall be placed in thin lifts (typically not exceeding 6 inches) and mechanically compacted with observation by geotechnical consultant. Backfill rock shall meet the requirements of ASTM D2321. Gap-graded rock is required to be wrapped in filter fabric to prevent the migration of fines into the rock backfill.

4.1.7 Trench and Retaining Wall Backfill and Compaction

The onsite soils may generally be suitable as trench backfill, provided the soils are screened of rocks, construction debris, other material greater than 6 inches in diameter and significant organic matter. If trenches are shallow or the use of conventional equipment may result in damage to the utilities, sand having a sand equivalent (SE) of 30 or greater (per California Test Method [CTM] 217) may be used to bed and shade the pipes. Based on our field evaluation, onsite soils will not meet this sand equivalent requirement. Sand backfill within the pipe bedding zone may be densified by jetting or

flooding and then tamping to ensure adequate compaction. Subsequent trench backfill should be compacted in uniform lifts (as outlined above in section "Placement and Compaction of Fills") by mechanical means to at least 90 percent relative compaction (per ASTM D1557).

Utility trenches running parallel to footings should not be excavated within a 1:1 (horizontal to vertical) downward projection from adjacent footings ("footing influence zone") to avoid potential undermining. Depending on the utility line and structural loading of the footing, utility trenches running perpendicular to footings may require special provisions such as sand-cement slurry backfill of the utility trench in this zone or flexible sleeves through the footings. These conditions should be evaluated on a case-by-case basis.

Retaining wall backfill should consist of sandy soils as outlined in preceding Section 4.1.5. The limits of select sandy backfill should extend at minimum ½ the height of the retaining wall or the width of the heel (if applicable), whichever is greater (Figure 3). Retaining wall backfill soils should be compacted in relatively uniform thin lifts to at least 90 percent relative compaction (per ASTM D1557). Jetting or flooding of retaining wall backfill materials should not be permitted.

In backfill areas where mechanical compaction of soil backfill is impractical due to space constraints, typically sand-cement slurry may be substituted for compacted backfill. The slurry should contain about one sack of cement per cubic yard. When set, such a mix typically has the consistency of compacted soil. Sand cement slurry placed near the surface within landscape areas should be evaluated for potential impacts on planned improvements.

A representative from LGC Geotechnical should observe, probe, and test the backfill to verify compliance with the project recommendations.

4.1.8 Shrinkage and Subsidence

Allowance in the earthwork volumes budget should be made for an estimated 5 to 15 percent reduction in volume of near-surface (upper approximate 5 to 8 feet) soils. It should be stressed that these values are only estimates and that an actual shrinkage factor would be extremely difficult to predetermine. Subsidence, due to earthwork operations, is expected to be on the order of 0.1 feet. These values are estimates only and exclude losses due to removal of any vegetation or debris. The effective shrinkage of onsite soils will depend primarily on the type of compaction equipment and method of compaction used onsite by the contractor and accuracy of the topographic survey.

4.2 Preliminary Foundation Recommendations

The proposed structure may be supported on spread or continuous footings and a conventional slab, provided earthwork is performed in accordance with the recommendations presented in this report. All footings should be supported on properly compacted fill. Please note that the

following foundation recommendations are preliminary and must be confirmed by LGC Geotechnical at the completion of grading.

Preliminary foundation recommendations are provided in the following sections. The foundation design must be performed by the structural engineer based on the following geotechnical parameters and minimum values provided.

4.2.1 Slab Design and Construction

A minimum slab thickness of 6 inches and 4 inches is recommended for new slabs in the warehouse and office areas, respectively. Slabs are to be supported on compacted fill soils properly prepared in accordance with the recommendations provided in this report. Minimum slab reinforcement should be determined by the structural engineer based on the imposed loading, crack control, etc.

It is recommended that subgrade soils below slabs be moisture conditioned in order to maintain the recommended moisture content up to the time of concrete placement. The recommended moisture content of the slab subgrade soils should be approximately 0 to 4 percent above optimum moisture content to a minimum depth of 12 inches. The moisture content of the slab subgrade should be verified by the geotechnical engineer within 1 to 2 days prior to concrete placement. In addition, this moisture content should be maintained around the immediate perimeter of the slab during construction and up to occupancy of the building structures.

Some post-construction moisture migration should be expected below the foundation. The following recommendations should be applied for office areas and/or other portions of the proposed warehouse that may be sensitive to nuisance moisture migrating through the slab from the subgrade soils. The following recommendations are for informational purposes only, as they are unrelated to the geotechnical performance of the foundation. Post-construction soil moisture must be anticipated below the foundation. The following recommendations may be superseded by the foundation engineer and/or owner.

In general, interior floor slabs with moisture sensitive floor coverings should be underlain by a minimum 15 mil thick vapor retarder, which has a water vapor transmission rate (permeance) of less than 0.3 perms, as determined by ASTM E 96, and meets the applicable code requirements (ASTM E 1745).

It is the responsibility of the contractor to ensure that the moisture/vapor retarder systems are properly installed in accordance with the project plans and manufacturers specifications, and that the moisture/vapor retarder materials are free of tears and punctures prior to and as a result of concrete placement. Additional moisture reduction and/or prevention measures may be needed, depending on the performance requirements of future interior floor coverings.

The foundation/structural engineer should determine whether the use of a capillary break (sand or gravel layer) in conjunction with the vapor retarder is necessary or required by code. Sand layer thickness and location (above and/or below vapor

retarder) should also be determined by the foundation/structural engineer. Sand layers should be installed, where applicable, in accordance with ACI Publication 302 – "Guide for Concrete Floor and Slab Construction."

4.2.2 Foundation Design Parameters

Provided our earthwork recommendations are implemented, spread and continuous footings may be designed with an allowable soil bearing pressure of 2,500 pounds per square foot (psf) provided the minimum widths and embedments presented below are implemented into the foundation design. These allowable bearing pressures are applicable for level (ground slope equal to or flatter than 5H:1V) conditions only. Bearing values indicated are for total dead loads and frequently applied live loads and may be increased by ⅓ for short duration loading (i.e., wind or seismic loads).

Minimum wall and column footing widths are to be 12 and 24 inches, respectively. Minimum foundation embedment is to extend a minimum of 24 inches below the adjacent exterior grade. Interior column footings may be placed 12 inches beneath the floor slab.

In addition, it is recommended that the perimeter building foundations be continuous across all exterior doorways to reduce moisture migration beneath the slab.

In utilizing the above-mentioned allowable bearing capacity and provided our earthwork recommendations are implemented, foundation settlement due to structural loads is anticipated to be on the order of 1-inch or less. Differential static settlement may be taken as half of the static settlement (i.e., ½-inch over a horizontal span of 40 feet). Furthermore, seismic settlement is anticipated to be on the order of 1-inch or less. Differential seismic settlement may be taken as half of the seismic settlement (i.e., ½-inch over a horizontal span of 40 feet).

4.2.3 Foundation Construction

The foundation is to be excavated into competent compacted artificial fill placed during grading operations. It is recommended that the foundation subgrade soils be evaluated by the geotechnical engineer prior to steel and/or concrete placement.

The geotechnical parameters provided herein assume that if the areas adjacent to the foundation are planted and irrigated, these areas will be designed with proper drainage and adequately maintained so that ponding, which causes significant moisture changes below the foundation, does not occur. Our recommendations do not account for excessive irrigation and/or incorrect landscape design. Plants should only be provided with sufficient irrigation for life and not overwatered to saturate subgrade soils. Sunken planters placed adjacent to the foundation should either be designed with an efficient drainage system or liners to prevent moisture infiltration below the foundation.

4.2.4 Lateral Load Resistance

Resistance to lateral loads can be provided by friction acting at the base of foundations and by passive earth pressure. For concrete/soil frictional resistance, an allowable coefficient of friction of 0.3 may be assumed with dead-load forces. For slabs constructed over a moisture retarder, the allowable friction coefficient should be provided by the manufacturer. An allowable passive lateral earth pressure of 250 psf per foot of depth (or pcf) to a maximum of 2,500 psf may be used for the sides of footings poured against properly compacted fill. Allowable passive pressure may be increased to 340 pcf (maximum of 3,400 psf) for short duration seismic loading. This passive pressure is applicable for level (ground slope equal to or flatter than 5H:1V) conditions. Frictional resistance and passive pressure may be used in combination without reduction. We recommend that the upper foot of passive resistance be neglected if finished grade will not be covered with concrete or asphalt. The provided allowable passive pressures are based on a factor of safety of 1.5 and 1.1 for static and seismic loading conditions, respectively.

4.3 Lateral Earth Pressures for Retaining Walls (Including Truck Docks)

New retaining walls are expected to be required in the truck dock (court) areas. Additionally, the proposed development may require some small retaining walls to facilitate the new site grades. The following may be used for design of site retaining walls. Lateral earth pressures are provided as equivalent fluid unit weights, in psf per foot of depth (or pcf). These values do not contain an appreciable factor of safety, so the retaining wall designer should apply the applicable factors of safety and/or load factors during design. A soil unit weight of 120 pcf may be assumed for calculating the actual weight of soil over the wall footing.

The following lateral earth pressures are presented in Table 3 for approved import or onsite free draining, clean granular (sandy) soils with a maximum of 35 percent fines (passing the No. 200 sieve per ASTM D-421/422) and a "Very Low" expansion potential (EI of 20 or less per ASTM D4829). Portions of the onsite soils are not suitable for retaining wall backfill due to their fines content. Therefore, select grading and stockpiling and/or import of soils meeting the criteria outlined above will be required by the contractor for obtaining suitable retaining wall backfill soil. The wall designer should clearly indicate on the retaining wall plans the required select sandy soil backfill criteria. These preliminary findings should be confirmed during grading.

TABLE 3

Lateral Earth Pressures – Approved Sandy Soils

Conditions	**Equivalent Fluid Unit Weight (pcf)**	**Equivalent Fluid Unit Weight (pcf)**
	Level Backfill	**2:1 Sloped Backfill**
	Approved Sandy Soils	**Approved Sandy Soils**
Active	35	55
At-Rest	55	70

If the wall can yield enough to mobilize the full shear strength of the soil, it can be designed for "active" pressure. If the wall cannot yield under the applied load, the earth pressure will be higher. This would include 90-degree corners of retaining walls. Such walls should be designed for "at-rest." The equivalent fluid pressure values assume free-draining conditions and a drainage system will be installed and maintained to prevent the build-up of hydrostatic pressures. If conditions other than those assumed above are anticipated, the equivalent fluid pressure values should be provided on an individual-case basis by the geotechnical engineer.

Retaining wall structures should be provided with appropriate drainage and appropriately waterproofed. To reduce, but not eliminate, saturation of near-surface (upper approximate 1-foot) soils in front of the retaining walls, the perforated subdrain pipe should be located as low as possible behind the retaining wall. The outlet pipe should be sloped to drain to a suitable outlet. In general, we do not recommend retaining wall outlet pipes be connected to area drains. If subdrains are connected to area drains, special care should be taken to maintain these drains. Typical conventional retaining wall drainage is shown on Figure 3. It should be noted that the recommended subdrain does not provide protection against seepage through the face of the wall and/or efflorescence. Waterproofing and outlet systems are not the purview of the geotechnical consultant.

Surcharge loading effects from any adjacent structures should be evaluated by the retaining wall designer. In general, structural loads within a 1:1 (horizontal: vertical) upward projection from the bottom of the proposed retaining wall footing will surcharge the proposed retaining wall. In addition to the recommended earth pressure, retaining walls adjacent to streets should be designed to resist a uniform lateral pressure of 85 pounds per square foot (psf) due to normal street vehicle traffic, if applicable. Uniform lateral surcharges may be estimated using the applicable coefficient of lateral earth pressure using a rectangular distribution. A factor of 0.45 and 0.3 may be used for at-rest and active conditions, respectively. The retaining wall designer should contact the geotechnical consultant for any required geotechnical input in estimating surcharge loads.

If required, the retaining wall designer may use a seismic lateral earth pressure increment of 15 pcf for a level backfill condition. This increment should be applied in addition to the provided static lateral earth pressure using a triangular distribution with the resultant acting at H/3 in relation to the base of the retaining structure (where H is the retained height). Per Section 1803.5.12 of the 2016 CBC, the seismic lateral earth pressure is applicable to structures assigned to Seismic Design Category D through F for retaining wall structures supporting more than 6 feet of backfill height. The provided seismic lateral earth pressure should not be used for retaining walls exceeding 10 feet in height. If a retaining wall greater than 10 feet in height is proposed or a retaining wall with a sloping backfill condition, the retaining wall designer should contact the geotechnical engineer for specific seismic lateral earth pressure increments based on the configuration of the planned retaining wall structures. This seismic lateral earth pressure is estimated using the procedure outlined by the Structural Engineers Association of California (Lew, et al, 2010).

Soil bearing and lateral resistance (friction coefficient and passive resistance) are provided in Section 4.2. (Preliminary Foundation Recommendations) and the subsequent earthwork related sub-sections. Earthwork considerations (temporary backcuts, backfill, compaction, etc.) for retaining walls are provided in Section 4.1 (Site Earthwork) and the subsequent earthwork related sub-sections.

4.4 Soil Corrosivity

Although not corrosion engineers (LGC Geotechnical is not a corrosion consultant), several governing agencies in Southern California require the geotechnical consultant to determine the corrosion potential of soils to buried concrete and metal facilities. We therefore present the results of our testing with regard to corrosion for the use of the client and other consultants, as they determine necessary.

Corrosion testing of a near-surface bulk sample indicated a soluble sulfate content of approximately 0.016 percent, a chloride content of 85 parts per million (ppm), pH of 8.2, and a minimum resistivity of 5,480 ohm-centimeters. Based on Caltrans Corrosion Guidelines (Caltrans, 2015), soils are considered corrosive to structural elements if the pH is 5.5 or less, or the chloride concentration is 500 ppm or greater, or the sulfate concentration is 2,000 ppm (0.2 percent) or greater. Based on the preliminary test results, soils are not considered corrosive using Caltrans criteria.

Based on laboratory sulfate test results, the near surface soils have a severity categorization of "Not Applicable" and are designated to a class "S0" per ACI 318, Table 19.3.1.1 with respect to sulfates. Concrete in direct contact with the onsite soils can be designed according to ACI 318, Table 19.3.2.1 using the "S0" sulfate classification.

Laboratory testing may need to be performed at the completion of grading by the project corrosion engineer to further evaluate the as-graded soil corrosivity characteristics. Accordingly, revision of the corrosion potential may be needed, should future test results differ substantially from the conditions reported herein. The client and/or other members of the development team should consider this during the design and planning phase of the project and formulate an appropriate course of action.

4.5 Control of Surface Water and Drainage Control

From a geotechnical perspective, we recommend that compacted finished grade soils adjacent to the proposed warehouse structures be sloped away from the proposed structures towards an approved drainage device or unobstructed swale. Drainage swales, wherever feasible, should not be constructed within 5 feet of buildings. Where lot and building geometry necessitates that the drainage swales be routed closer than 5 feet to structural foundations, we recommend the use of area drains together with drainage swales. Drainage swales used in conjunction with area drains should be designed by the project civil engineer so that a properly constructed and maintained system will prevent ponding within 5 feet of the foundation. Code compliance of grades is not the purview of the geotechnical consultant.

Planters with open bottoms adjacent to buildings should be avoided. Planters should not be designed adjacent to buildings unless provisions for drainage, such as catch basins, liners, and/or area drains, are made. Overwatering must be avoided.

4.6 Subsurface Water Infiltration

Recent regulatory changes mandate that storm water be infiltrated rather than discharged via conventional storm drainage systems. Typically, a combination of methods are implemented to reduce surface water runoff and increase infiltration including; permeable pavements/pavers for roadways and walkways and directing surface water runoff to grass-lined swales, retention areas, and/or drywells. It should be noted that intentionally infiltrating storm water conflicts with the geotechnical engineering objective of directing surface water away from structures and improvements. The geotechnical stability and integrity of the project site is reliant upon appropriately handling all surface water. In general, the vast majority of geotechnical distress issues are directly related to improper drainage. In general, distress in the form of movement of improvements could occur as a result of soil saturation and loss of soil support, expansion, internal soil erosion, collapse and/or settlement.

Per the Los Angeles County testing guidelines (2017), the design infiltration rate is determined by dividing the measured infiltration rate by a series of reduction factors including; test procedure (RF_t), site variability (RF_v) and long-term siltation plugging and maintenance (RF_s). The reduction factor for long-term siltation plugging and maintenance (RF_s) is the purview of the infiltration system designer per the Los Angeles County testing guidelines (2017). The test procedure reduction factor and recommended site variability reduction factor applied to the measured infiltration rate are provided below in Table 4. The design infiltration rate is the measured percolation rate divided by the total reduction factor (RF_t x RF_v x RF_s).

TABLE 4

Reduction Factors Applied to Measured Infiltration Rate

Consideration	Reduction Factor
Test procedure, boring percolation, RF_t	2
Site variability, number of tests, etc., RF_v	2
Long-term siltation plugging and maintenance, RF_s	Per Infiltration Designer
Total Reduction Factor, RF = RF_t x RF_v x RF_s	**TBD**

Per the requirements of the Los Angeles County testing guidelines (2017), subsurface materials shall have a design infiltration rate equal to or greater than 0.3 inches per hour. Based on the minimum Reduction Factor of 4 calculated above (not including long-term siltation plugging and maintenance), the infiltration tests do not meet the minimum requirements of the County of Los Angeles testing guidelines; therefore, considering the results of the field infiltration test indicating unacceptable infiltration rates and that the onsite soils primarily consisting of mixed fine-grained and coarse-grained soils considered to have low permeability, we do not recommend that surface water be intentionally infiltrated into subsurface soils.

4.7 Preliminary Asphalt Concrete Pavement Sections

The following provisional minimum asphalt concrete (AC) street sections are provided in Table 5 for Traffic Indices (TI) of 5.5, 6.0 and 6.5 to be utilized in the design of the auto and truck parking/circulation areas. These sections are based on an assumed R-value of 30. These recommendations must be confirmed with R-value testing of representative near-surface soils at the completion of grading and after underground utilities have been installed and backfilled. Final pavement sections should be confirmed by the project civil engineer based upon the final design Traffic Index. If requested, LGC Geotechnical will provide sections for alternate TI values.

TABLE 5

Preliminary Asphalt Concrete Pavement Section Options

Assumed Traffic Index	5.5	6.0	6.5
R -Value Subgrade	30	30	30
AC Thickness	4.0 inches	4.0 inches	4.5 inches
Aggregate Base Thickness	5.0 inches	6.5 inches	7.0 inches

The pavement section thicknesses provided above are considered minimum thicknesses. Increasing the thickness of any or all of the above layers will reduce the likelihood of the pavement experiencing distress during its service life. The above recommendations are based on the assumption that proper maintenance and irrigation of the areas adjacent to the roadway will occur throughout the design life of the pavement. Failure to maintain a proper maintenance and/or irrigation program may jeopardize the integrity of the pavement.

Earthwork recommendations regarding aggregate base and subgrade are provided in the previous Section "Site Earthwork" and the related sub-sections of this report.

4.8 Preliminary Portland Cement Concrete Pavement Sections

Preliminary minimum Portland Cement Concrete (PCC) pavement street sections are provided below in Table 6 for Traffic Indices of 6.0, 7.0, and 8.0 to be utilized in the design of the truck parking/circulation areas or loading docks. These sections are based on an assumed R-value of 30. These recommendations must be confirmed with R-value testing of representative near-surface soils at the completion of grading and after underground utilities have been installed and backfilled. Final street sections should be confirmed by the project civil engineer based upon the projected design Traffic Index. If requested, LGC Geotechnical will provide sections for alternate TI values. The appropriate paving section must be selected by the project civil engineer/client based on design traffic indexes.

TABLE 6

Preliminary PCC Pavement Section Options

Provided Traffic Index	6.0	7.0	8.0
PCC Thickness	6.0 inches	7.0 inches	8.0 inches
95% Compacted Subgrade	12.0 inches	12.0 inches	12.0 inches

We recommend a PCC pavement section consisting of thicknesses presented above over 12 inches of compacted subgrade. The concrete should have a minimum compressive strength of 4,000 psi at the time the pavement is subjected to traffic. To reduce the potential (but not eliminate) for cracking, paving should provide control joints at regular intervals not exceeding 14 feet in each direction, depth of ⅓ the concrete thickness. Contraction and construction joints should include a joint filler/sealer to prevent migration of water into the subgrade soils. The type of joint sealer and filler material should be specified by the pavement designer and should be maintained throughout the life of the pavement. Dowels are recommended at joints to reduce potential offsets. The above section does not include steel reinforcement. Steel reinforcement (typically No. 3 rebars at 24 inches on-center each way) may be added to reduce the potential for cracking.

Subgrade below the PCC pavement should be compacted to a minimum of 95 percent relative compaction per ASTM D1557 near optimum moisture content (generally within optimum and 2 percent above optimum moisture content). Earthwork recommendations are provided in Section 4.1 "Site Earthwork" and the related sub-sections of this report.

The thicknesses shown are minimum thicknesses. Increasing the thickness of any or all of the above layers will reduce the likelihood of the pavement experiencing distress during its service life. The above recommendations are based on the assumption that proper maintenance and irrigation of the areas adjacent to the roadway will occur through the design life of the pavement. Failure to maintain a proper maintenance and/or irrigation program may jeopardize the integrity of the pavement.

4.9 Nonstructural Concrete Flatwork

Nonstructural concrete flatwork (such as walkways, patio slabs, etc.) has a potential for cracking due to changes in soil volume related to soil-moisture fluctuations. To reduce the potential for excessive cracking and lifting, concrete may be designed in accordance with the minimum guidelines outlined in Table 7. These guidelines will reduce the potential for irregular cracking and promote cracking along construction joints, but will not eliminate all cracking or lifting. Thickening the concrete and/or adding additional reinforcement will further reduce cosmetic distress.

TABLE 7

Preliminary Geotechnical Parameters for Nonstructural Concrete Flatwork Placed on Very Low to Low Expansion Potential Subgrade

	Sidewalks	**Patios/Entryways**	**City Sidewalk Curb and Gutters**
Minimum Thickness (in.)	4 (nominal)	4 (full)	City/Agency Standard
Presoaking	Wet down prior to placing	Wet down prior to placing	City/Agency Standard
Reinforcement	—	No. 3 at 24 inches on centers	City/Agency Standard
Thickened Edge (in.)	—	—	City/Agency Standard
Crack Control Joints	Saw cut or deep open tool joint to a minimum of $^1/_3$ the concrete thickness	Saw cut or deep open tool joint to a minimum of $^1/_3$ the concrete thickness	City/Agency Standard
Maximum Joint Spacing	5 feet	6 feet	City/Agency Standard
Aggregate Base Thickness (in.)	—	—	City/Agency Standard

To reduce the potential for driveways to separate from the loading dock or building slab, the builder may elect to install dowels to tie these two elements together.

4.10 Geotechnical Plan Review

When available, project plans (grading, foundation, retaining wall, etc.) should be reviewed by this office prior to construction to verify that our geotechnical recommendations have been incorporated. Additional field work and/or modified geotechnical recommendations may be necessary.

4.11 Geotechnical Observation and Testing During Construction

The recommendations provided in this report are based on limited subsurface observations and geotechnical analysis. The interpolated subsurface conditions should be checked in the field during construction by a representative of LGC Geotechnical. Geotechnical observation and testing is required per Section 1705 of the 2016 California Building Code (CBC).

Geotechnical observation and/or testing should be performed by LGC Geotechnical at the following stages:

- During grading (removal and recompaction bottoms, fill placement, etc.);
- During retaining wall backfill and compaction;
- During utility trench backfill and compaction;
- After moisture conditioning building pads and other concrete-flatwork subgrades, and prior to placement of aggregate base or concrete;
- Preparation of pavement subgrade and placement of aggregate base;
- After building and wall footing excavation and prior to placing steel reinforcement and/or concrete; and
- When any unusual soil conditions are encountered during any construction operation subsequent to issuance of this report.

5.0 LIMITATIONS

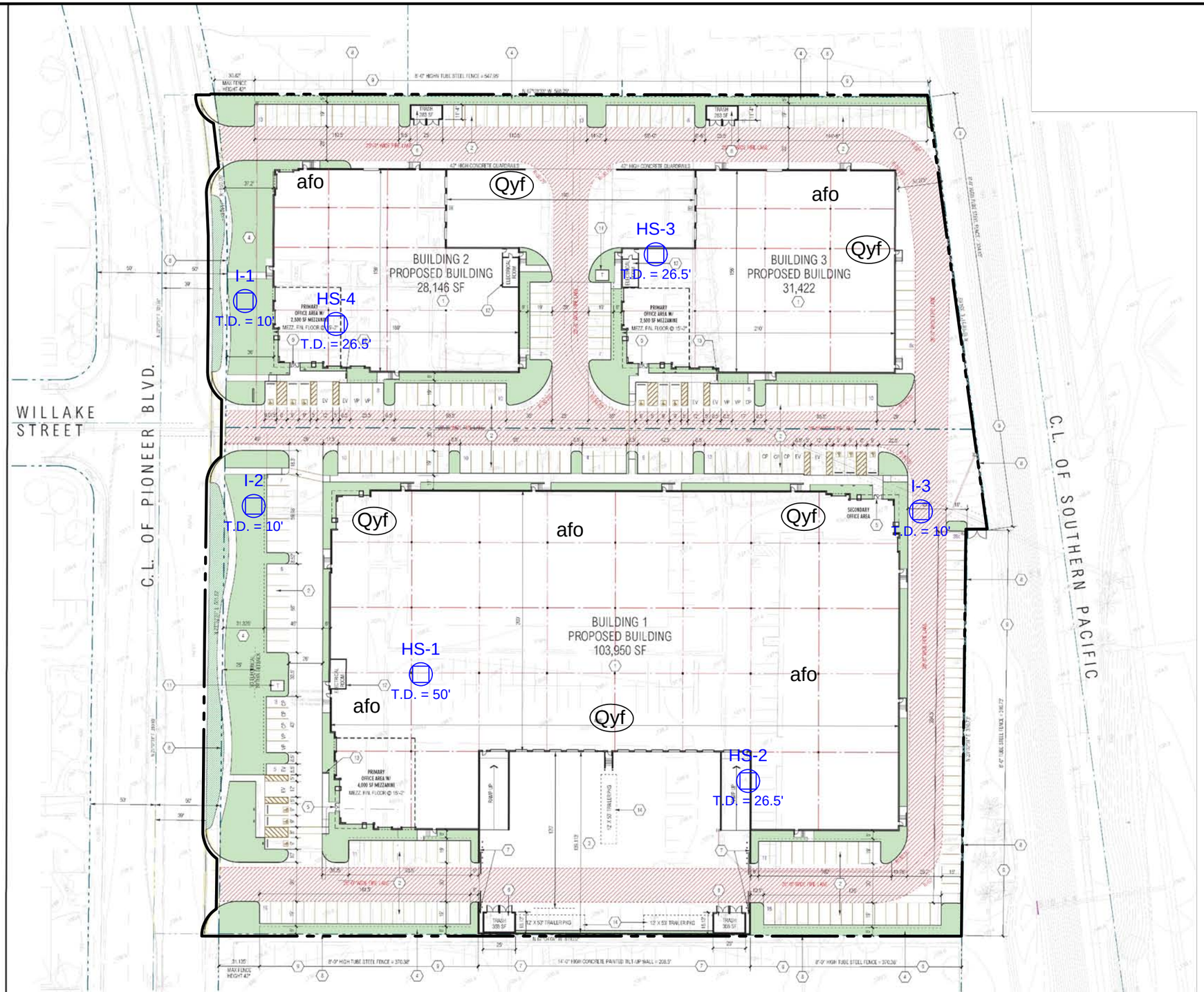
Our services were performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable soils engineers and geologists practicing in this or similar localities. No other warranty, expressed or implied, is made as to the conclusions and professional advice included in this report.

This report is based on data obtained from limited observations of the site, which have been extrapolated to characterize the site. While the scope of services performed is considered suitable to adequately characterize the site geotechnical conditions relative to the proposed development, no practical evaluation can completely eliminate uncertainty regarding the anticipated geotechnical conditions in connection with a subject site. Variations may exist and conditions not observed or described in this report may be encountered during grading and construction.

This report is issued with the understanding that it is the responsibility of the owner, or of his/her representative, to ensure that the information and recommendations contained herein are brought to the attention of the other consultants (at a minimum the civil engineer, structural engineer, landscape architect) and incorporated into their plans. The contractor should properly implement the recommendations during construction and notify the owner if they consider any of the recommendations presented herein to be unsafe, or unsuitable.

The findings of this report are valid as of the present date. However, changes in the conditions of a site can and do occur with the passage of time, whether they be due to natural processes or the works of man on this or adjacent properties. The findings, conclusions, and recommendations presented in this report can be relied upon only if LGC Geotechnical has the opportunity to observe the subsurface conditions during grading and construction of the project, in order to confirm that our preliminary findings are representative for the site. This report is intended exclusively for use by the client, any use of or reliance on this report by a third party shall be at such party's sole risk.

In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control. Therefore, this report is subject to review and modification.



LEGEND:

afo	Older Artificial Fill
Qyf	Young Alluvial Fan deposits, Circled Where Buried
HS-4 T.D. = 26.5'	Approximate Location of Hollow Stem Boring, with Total Depth in Feet
I-3 T.D. = 10'	Approximate Location of Infiltration Test, with Total Depth in Feet
— - —	Approximate Limit of Report

SCALE: 1"=80'

160' 0 80' 160'

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FIGURE 2
Geotechnical Exploration Location Map

PROJECT NAME	Pioneer - Santa Fe Springs
PROJECT NO.	18174-01
ENG. / GEOL.	RLD
SCALE	1" = 80'
DATE	August 2019

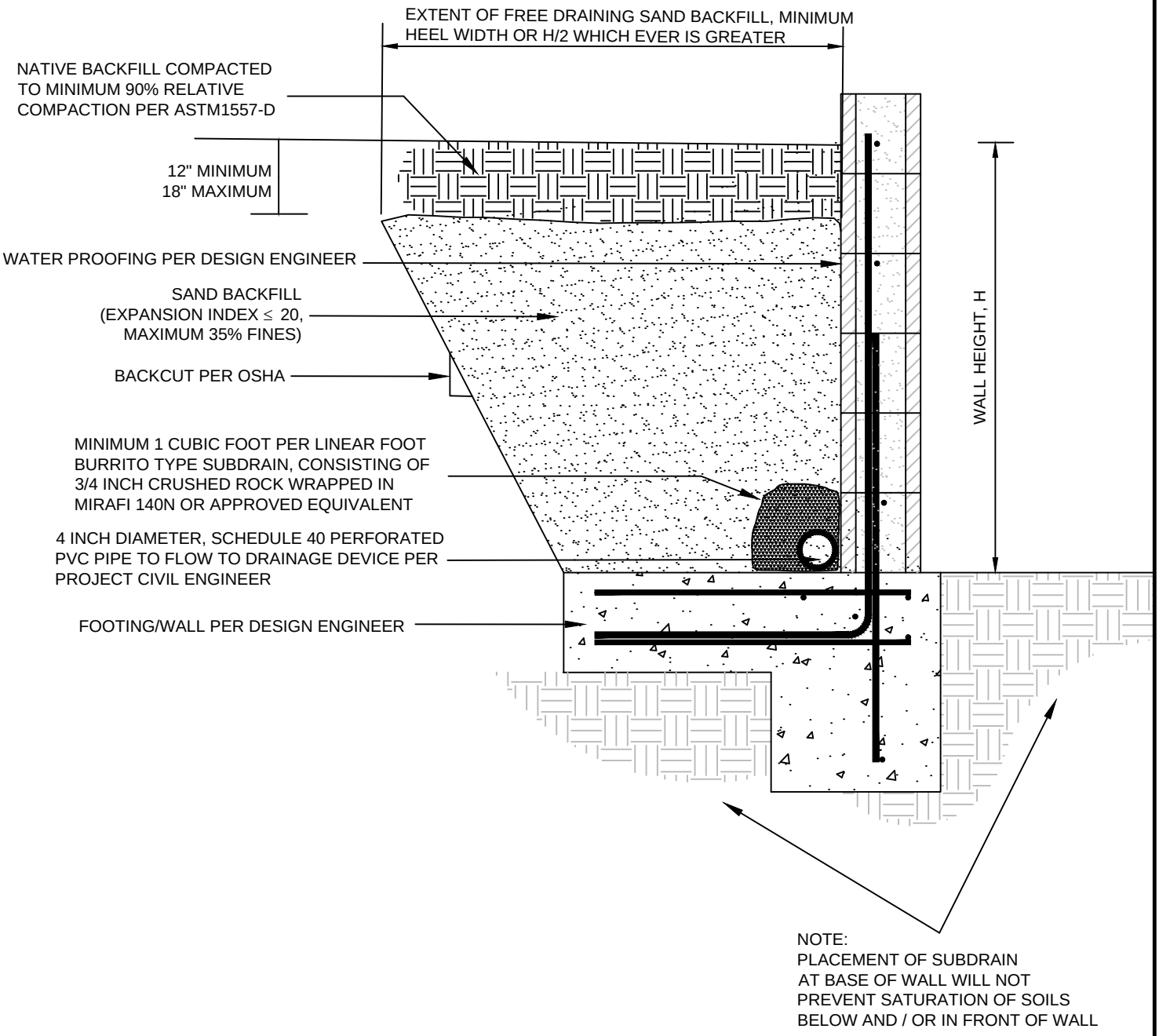


FIGURE 3
Retaining Wall Detail

PROJECT NAME	*Brookhollow - Santa Fe Springs*
PROJECT NO.	*18174-01*
ENG.	*RLD*
SCALE	*Not to Scale*
DATE	*February 2019*

Appendix A
References

APPENDIX A

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Appendix B
Field Exploration Logs

Geotechnical Boring Log Borehole HS-1

Date: 1/10/2019	**Drilling Company:** Cal Pac Drilling
Project Name: Pioneer - Santa Fe Springs	**Type of Rig:** Hollow Stem Auger
Project Number: 18174-01	**Drop:** 30" **Hole Diameter:** 6"
Elevation of Top of Hole: ~128' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 2

Logged By ARN
Sampled By ARN
Checked By RLD

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
125	0	B-1					SM	**@0' to 5' - Older Artificial Fill (afo)** @0' - Asphalt concrete over crushed miscellaneous base @1' - Silty SAND: medium brown, slightly moist, medium dense	MD EI CR DS
	5		R-1	6 9 14	92.6	7.8	SM	**@5' to T.D. - Young Alluvial Fan Deposits (Qyf)** @5' - Silty SAND: gray to gray brown, moist, medium dense; iron and manganese oxide staining	
120			SPT-1	Push 2 2		36.0	ML	@7.5' - Sandy SILT: dark gray brown, very moist to wet, medium stiff	
	10		R-2	3 4 3	101.8	12.2	SM	@10' - Silty SAND: medium to light gray, loose, moist; micaceous; manganese oxide nodules	-#200 CN
115									
	15		SPT-2	2 4 5		26.8	CL	@15' - Sandy CLAY: medium to dark olive gray, very moist, stiff	
110									
	20		R-3	3 13 27	106.9	5.3	SM	@20' - Silty SAND: light to medium gray, slightly moist, medium dense; slight odor	
105									
	25		SPT-3 GB-1	9 14 30		3.2	SP	@25' - SAND with Gravel: medium gray, dry, very dense; slight odor	
100									
	30								

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SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 1/24/2019

Geotechnical Boring Log Borehole HS-1

Date: 1/10/2019	**Drilling Company:** Cal Pac Drilling
Project Name: Pioneer - Santa Fe Springs	**Type of Rig:** Hollow Stem Auger
Project Number: 18174-01	**Drop:** 30" **Hole Diameter:** 6"
Elevation of Top of Hole: ~128' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 2 of 2

Logged By ARN
Sampled By ARN
Checked By RLD

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
	30		R-4	50/5"	138.1	3.6	SM	@30' - Silty SAND with Gravel: medium gray, dry, very dense; slight odor	
95									
	35		SPT-4	21 35 43		5.2		@35' - Silty SAND with Gravel: medium gray, slightly moist, very dense; medium to coarse grained sand; slightly micaceous	
90									
	40		R-5	16 50/6"	110.8	22.8	ML	@40' - Sandy SILT: gray,very moist, hard	
85									
	45		SPT-5	17 15 50		14.0	SC	@45' - Clayey SAND: olive gray brown to light gray, very moist, very dense	
80									
	50		R-6	50/3"	97.8	4.3	SM	@50' Silty SAND with Gravel: brown, dry, very dense; subangular to rounded pea gravel, medium grained sand	
75								Total Depth = 50' Groundwater Not Encountered Backfilled with Cuttings and Capped with AC Cold Patch on 1/10/2019	
	55								
70									
	60								

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CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Geotechnical Boring Log Borehole HS-2

Date: 1/10/2019	**Drilling Company:** Cal Pac Drilling
Project Name: Pioneer - Santa Fe Springs	**Type of Rig:** Hollow Stem Auger
Project Number: 18174-01	**Drop:** 30" **Hole Diameter:** 6"
Elevation of Top of Hole: ~127' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By ARN
Sampled By ARN
Checked By RLD

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
125	0	B-1					SC	**@0' to 5' - Older Artificial Fill (afo)** @0' - Asphalt concrete over crushed miscellaneous base @1' - Clayey SAND: brown, slightly moist	
	5		R-1	4 6 8	101.3	3.0	SM	**@5' to T.D. - Young Alluvial Fan Deposits (Qyf)** @5' - Silty SAND: gray brown, dry, medium dense	
120			R-2	4 6 7	95.3	2.6		@7.5' - Silty SAND: light gray brown, dry, loose; iron oxide staining	
	10		R-3	5 6 6	98.4	7.9	SC	@10' - Clayey SAND: olive brown, moist, loose; fine grained sand	
115									
	15		SPT-1	2 8 13		3.2	SP	@15' - SAND: grayish brown, dry, medium dense	
110									
	20		R-4	6 12 10	97.8	7.8		@20' - SAND: light gray brown, moist, medium dense; manganese oxide staining	
105									
	25		SPT-2	18 25 31		2.5		@25' - SAND with Gravel: brown, dry, very dense	
100								Total Depth = 26.5' Groundwater Not Encountered Backfilled with Cuttings and Capped with AC Cold Patch on 1/10/2019	
	30								

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B	BULK SAMPLE
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SPT	STANDARD PENETRATION TEST SAMPLE
▽	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 1/24/2019

Geotechnical Boring Log Borehole HS-3

Date: 1/10/2019	**Drilling Company:** Cal Pac Drilling
Project Name: Pioneer - Santa Fe Springs	**Type of Rig:** Hollow Stem Auger
Project Number: 18174-01	**Drop:** 30" **Hole Diameter:** 6"
Elevation of Top of Hole: ~128' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By ARN
Sampled By ARN
Checked By RLD

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
125	0	B-1					SC	**@0' to 5' - Older Artificial Fill (afo)** @0' - Asphalt concrete over crushed miscellaneous base @1' - Clayey SAND: brown and reddish brown, slightly moist, loose; red brick in cuttings	
	5		R-1	4 4 5	87.8	28.6	ML	**@5' to T.D. - Young Alluvial Fan Deposits (Qyf)** @5' - SILT: olive brown, very moist, medium stiff; gastropod shells	AL CN
120			R-2	2 4 4	91.8	17.0	SM	@7.5' - Silty SAND: yellow brown and olive brown, very moist, loose	-#200 CO
	10		R-3	3 6 9	69.5	59.4	ML	@10' - Sandy SILT: dark brown, very moist to wet, stiff; iron oxide staining; root casts; micaceous	
115									
	15		SPT-1	6 7 3		2.8	SP	@15' - SAND with Gravel: brown, dry, medium dense; subangular to rounded gravel	
110									
	20		R-4	13 34 38	124.1	3.2		@20' - SAND with Gravel: red brown, dry, very dense; very coarse sand	
105									
	25		SPT-2	12 23 24		2.5		@25' - SAND with Gravel: brown, dry, very dense; gravel up to 1 inch in diameter	
100								Total Depth = 26.5' Groundwater Not Encountered Backfilled with Cuttings and Capped with AC Cold Patch on 1/10/2019	
	30								

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SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
▽	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 1/24/2019

Geotechnical Boring Log Borehole HS-4

Date: 1/10/2019	**Drilling Company:** Cal Pac Drilling
Project Name: Pioneer - Santa Fe Springs	**Type of Rig:** Hollow Stem Auger
Project Number: 18174-01	**Drop:** 30" **Hole Diameter:** 6"
Elevation of Top of Hole: ~128' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By ARN
Sampled By ARN
Checked By RLD

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
125	0	B-1					SM	**@0' to 5' - Older Artificial Fill (afo)** @0' - Asphalt concrete over crushed miscellaneous base @1' - Silty SAND: medium brown, slightly moist	
	5		R-1	4 6 7	95.4	10.7	SM	**@5' to T.D. - Young Alluvial Fan Deposits (Qyf)** @5' - Silty SAND: gray brown, moist, loose; fine to medium grained sand	
120			R-2	2 2 3	83.0	24.9	ML	@7.5' - Sandy SILT: dark brown, very moist, soft	
	10		R-3	2 4 4	71.5	49.2	CL	@ 10' - Sandy CLAY: dark brown, very moist to wet, medium stiff; iron and manganese oxide staining	
115									
	15		SPT-1	2 2 3		31.5		@15' - Sandy CLAY: olive brown and gray, very moist to wet, medium stiff	
110									
	20		R-4	10 18 27	106.5	4.1	SP	@20' - SAND: red brown, dry to slightly moist, dense; coarse grained sand	
105									
	25		SPT-2	15 17 30		3.8		@25' - SAND with Gravel: gray brown, dry, very dense; subangular to rounded gravel	
100								Total Depth = 26.5' Groundwater Not Encountered Backfilled with Cuttings and Capped with AC Cold Patch on 1/10/2019	
	30								

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SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
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SPT	STANDARD PENETRATION TEST SAMPLE
▽	GROUNDWATER TABLE

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S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 1/24/2019

Geotechnical Boring Log Borehole I-1

Date: 1/10/2019	**Drilling Company:** Cal Pac Drilling
Project Name: Pioneer - Santa Fe Springs	**Type of Rig:** Hollow Stem Auger
Project Number: 18174-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~128' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By ARN
Sampled By ARN
Checked By RLD

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
125	0						SM	**@0' to 5' - Older Artificial Fill (afo)** @0' - Asphalt concrete over crushed miscellaneous base @1' - Silty SAND: medium brown, slightly moist	
							SP	@3' - Sand: yellowish brown, slightly moist	
	5		R-1	4 5 6	93.1	6.9	SM	**@5' to T.D. - Young Alluvial Fan Deposits (Qyaf)** @5' - Silty SAND: gray brown, slightly moist, loose; liesegang banding with iron oxide	
120			R-2	3 3 5	93.1	25.3	ML	@ 7.5' - Sandy SILT: gray brown, very moist, medium stiff; iron oxide staining @10' - Sandy SILT: olive gray and brown, moist	
	10							Total Depth = 10' Groundwater Not Encountered 3" Perforated Pipe Surrounded by Gravel Installed and Presoaked on 1/10/2019. Pipe Removed, Boring Backfilled with Cuttings, and Capped with AC Cold Patch on 1/11/2019	
115	15								
110	20								
105	25								
100	30								

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AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 1/24/2019

Geotechnical Boring Log Borehole I-2

Date: 1/10/2019	**Drilling Company:** Cal Pac Drilling
Project Name: Pioneer - Santa Fe Springs	**Type of Rig:** Hollow Stem Auger
Project Number: 18174-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~128' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By ARN
Sampled By ARN
Checked By RLD

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
125	0						SC	**@0' to 5' - Older Artificial Fill (afo)** @0' - Asphalt concrete over crushed miscellaneous base @1' - Clayey SAND: brown, slightly moist	
	5		R-1	5 6 7	113.0	6.8	SM	**@5' to T.D. - Young Alluvial Fan Deposits (Qyf)** @5' - Silty SAND: red brown, slightly moist, loose	
120			R-2	2 3 4	85.3	33.4	ML	@7.5' - Sandy SILT: olive brown, very moist to wet, medium stiff; iron oxide staining @10' Sandy SILT: olive gray and brown, very moist to wet	
	10							Total Depth = 10' Groundwater Not Encountered 3" Perforated Pipe Surrounded by Gravel Installed and Presoaked on 1/10/2019. Pipe Removed, Boring Backfilled with Cuttings, and Capped with AC Cold Patch on 1/11/2019	
115	15								
110	20								
105	25								
100	30								

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AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 1/24/2019

Geotechnical Boring Log Borehole I-3

Date: 1/10/2019 | **Drilling Company:** Cal Pac Drilling

Project Name: Pioneer - Santa Fe Springs | **Type of Rig:** Hollow Stem Auger

Project Number: 18174-01 | **Drop:** 30" | **Hole Diameter:** 8"

Elevation of Top of Hole: ~128' MSL | **Drive Weight:** 140 pounds

Hole Location: See Geotechnical Map

Logged By ARN
Sampled By ARN
Checked By RLD

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
125	0						SM	**@0' to 5' - Older Artificial Fill (afo)** @0' - Asphalt concrete over crushed miscellaneous base @1' - Silty SAND: medium brown, slightly moist	
	5		R-1	5 4 4	90.7	20.8	CL	**@5' to T.D. - Young Alluvial Fan Deposits (Qyaf)** @5' - Sandy CLAY: brown, very moist, medium stiff, iron oxide staining	
120			R-2	1 2 2	91.4	14.8	SM	@7.5' - Silty SAND: gray and brown, very moist, very loose; some clayey blebs @10' - Silty SAND: grayish brown, very moist	
115	10							Total Depth = 10' Groundwater Not Encountered 3" Perforated Pipe Surrounded by Gravel Installed and Presoaked on 1/10/2019. Pipe Removed, Boring Backfilled with Cuttings, and Capped with AC Cold Patch on 1/11/2019	
	15								
110	20								
105	25								
100	30								

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RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 1/24/2019

Appendix C
Laboratory Test Results

APPENDIX C

Laboratory Test Results

The laboratory testing program was directed towards providing quantitative data relating to the relevant engineering properties of the soils. Samples considered representative of site conditions were tested in general accordance with American Society for Testing and Materials (ASTM) procedure and/or California Test Methods (CTM), where applicable. The following summary is a brief outline of the test type and a table summarizing the test results.

Moisture and Density Determination Tests: Moisture content (ASTM D2216) and dry density determinations (ASTM D2937) were performed on driven samples obtained from the test borings. The results of these tests are presented in the boring logs. Where applicable, only moisture content was determined from SPT or disturbed samples.

Grain Size Distribution/Fines Content: Representative samples were dried, weighed, and soaked in water until individual soil particles were separated (per ASTM D421) and then washed on a No. 200 sieve (ASTM D1140). Where applicable, the portion retained on the No. 200 sieve was dried and then sieved on a U.S. Standard brass sieve set in accordance with ASTM D6913 (sieve) or ASTM D422 (sieve and hydrometer).

Sample Location	Description	% Passing # 200 Sieve
HS-1 @ 10 ft	Silty Sand	37
HS-3 @ 7.5 ft	Silty Sand	49

Atterberg Limits: The liquid and plastic limits ("Atterberg Limits") were determined per ASTM D4318 for engineering classification of fine-grained material and presented in the table below. The USCS soil classification indicated in the table below is based on the portion of sample passing the No. 40 sieve and may not necessarily be representative of the entire sample. The plot is provided in this Appendix.

Sample Location	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	USCS Soil Classification
HS-3 @ 5 ft	42	27	15	ML

Direct Shear: One direct shear test was performed on a sample remolded to 90 percent relative compaction. The ring samples were soaked for a minimum of 24 hours prior to testing. The samples were tested under various normal loads using a motor-driven, strain-controlled, direct-shear testing apparatus (ASTM D3080). The plot is provided in this Appendix.

Laboratory Test Results

Consolidation: Two consolidation tests were performed per ASTM D2435. A sample (2.4 inches in diameter and 1 inch in height) was placed in a consolidometer and increasing loads were applied. The sample was allowed to consolidate under "double drainage" and total deformation for each loading step was recorded. The percent consolidation for each load step was recorded as the ratio of the amount of vertical compression to the original sample height. The consolidation pressure curves are provided in this Appendix.

Collapse/Swell Potential: One collapse test was performed per ASTM D4546. A sample (2.4 inches in diameter and 1-inch in height) was placed in a consolidometer and loaded to its approximate in-situ effective stress. The curve is presented in this Appendix.

Laboratory Compaction: The maximum dry density and optimum moisture content of typical materials were determined in accordance with ASTM D1557. The results of this tests are presented in the table below.

Sample Location	Sample Description	Maximum Dry Density (pcf)	Optimum Moisture Content (%)
HS-1 @ 0-5 ft	Brown and reddish-brown silty sand	115.5	14.0

Expansion Index: The expansion potential of a selected representative sample was evaluated by the Expansion Index Test per ASTM D4829.

Sample Location	Expansion Index	Expansion Potential*
HS-1 @ 0-5 ft	14	Very Low

* Per ASTM D4829

Soluble Sulfates: The soluble sulfate contents of a selected sample was determined by standard geochemical methods (CTM 417). The test results are presented in the table below.

Sample Location	Sulfate Content (%)
HS-1 @ 0-5 ft	< 0.1

Laboratory Test Results

Chloride Content: Chloride content was tested per CTM 422. The results are presented below.

Sample Location	Chloride Content (ppm)
HS-1 @ 0-5 ft	85

Minimum Resistivity and pH Tests: Minimum resistivity and pH tests were performed in general accordance with CTM 643 and standard geochemical methods. The results are presented in the table below.

Sample Location	pH	Minimum Resistivity (ohms-cm)
HS-1 @ 0-5 ft	8.2	5,480

ATTERBERG LIMITS

ASTM D 4318

Project Name:	Santa Fe Springs	Tested By:	R. Manning	Date:	01/17/19
Project No. :	18174-01	Input By:	G. Bathala	Date:	01/24/19
Boring No.:	HS-3	Checked By:	J. Ward		
Sample No.:	R-1	Depth (ft.)	5.0		
Soil Identification:	Dark olive brown silt (ML)				

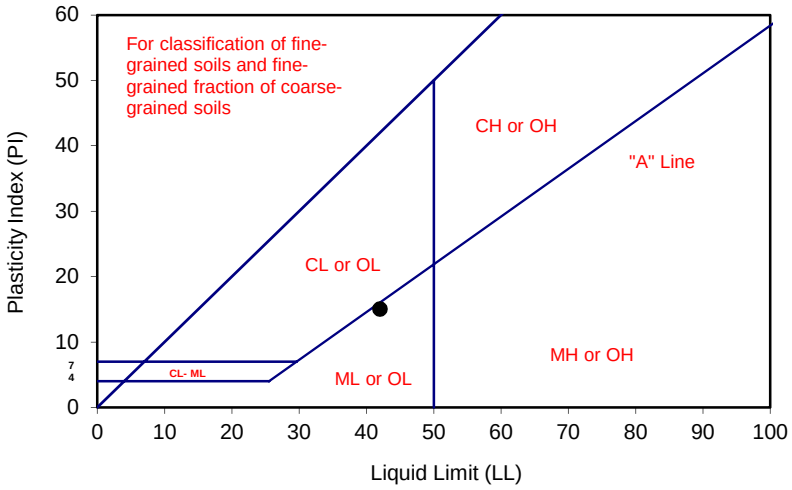
TEST	PLASTIC LIMIT		LIQUID LIMIT			
NO.	1	2	1	2	3	4
Number of Blows [N]			33	22	15	
Wet Wt. of Soil + Cont. (g)	18.27	18.08	25.98	24.55	23.64	
Dry Wt. of Soil + Cont. (g)	16.78	16.74	22.48	21.33	20.55	
Wt. of Container (g)	11.28	11.75	13.87	13.73	13.61	
Moisture Content (%) [Wn]	27.09	26.85	40.65	42.37	44.52	

Liquid Limit	**42**
Plastic Limit	**27**
Plasticity Index	**15**
Classification	**ML**

PI at "A" - Line = 0.73(LL-20) 16.06

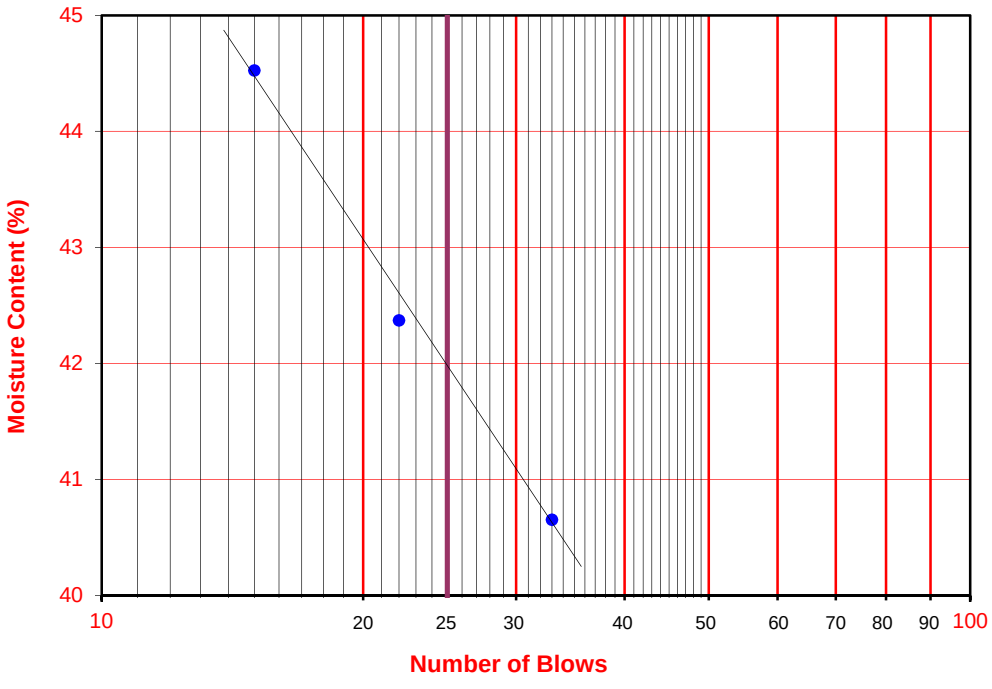
One - Point Liquid Limit Calculation

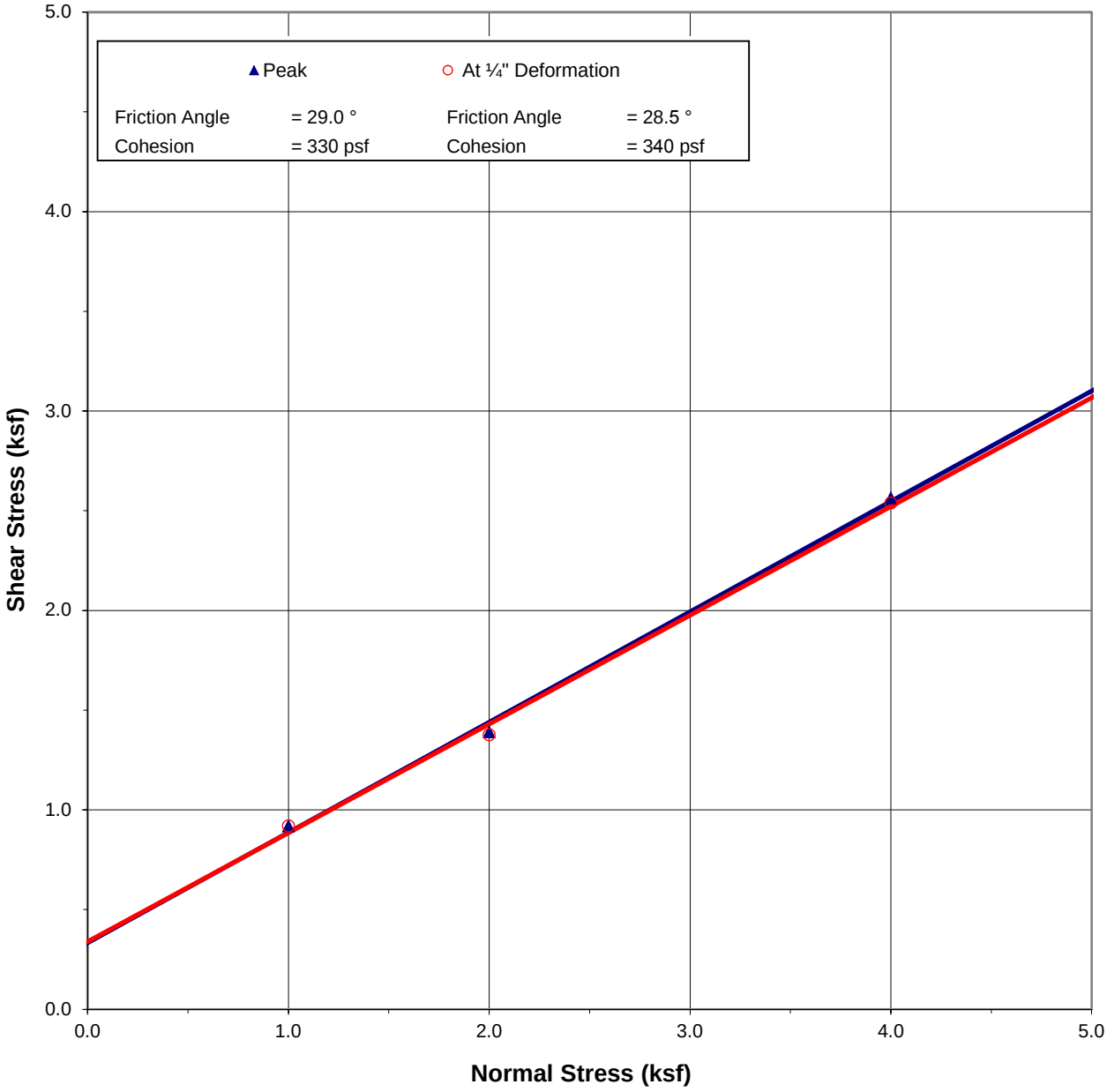
$LL = Wn(N/25)^{0.121}$



PROCEDURES USED

	Wet Preparation
	Multipoint - Wet
X	Dry Preparation
	Multipoint - Dry
X	Procedure A
	Multipoint Test
	Procedure B
	One-point Test





Location:	Sample No.:	Depth (ft)	Sample Type	Shear Rate (inch/min)	Dry Density (pcf)	Initial Moisture Content (%)	Final Moisture Content (%)
HS-1	**B-1**	**0-5'**	**Remolded**	**0.002**	**104.0**	**14.0**	**23.8**

Sample Description: SM

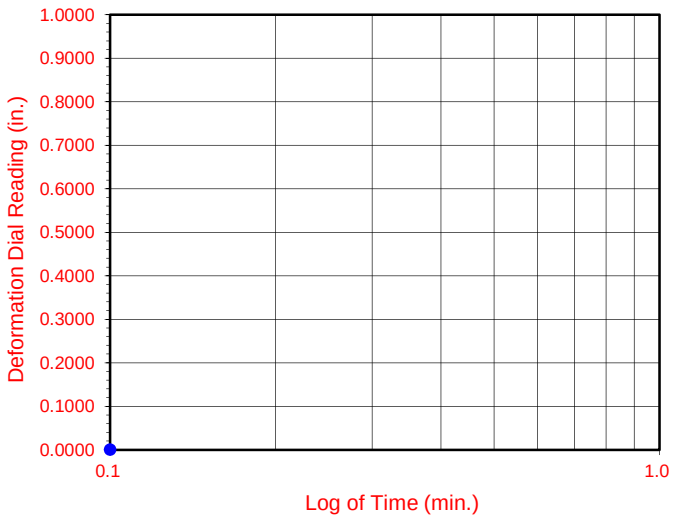
LGC Geotechnical, Inc.

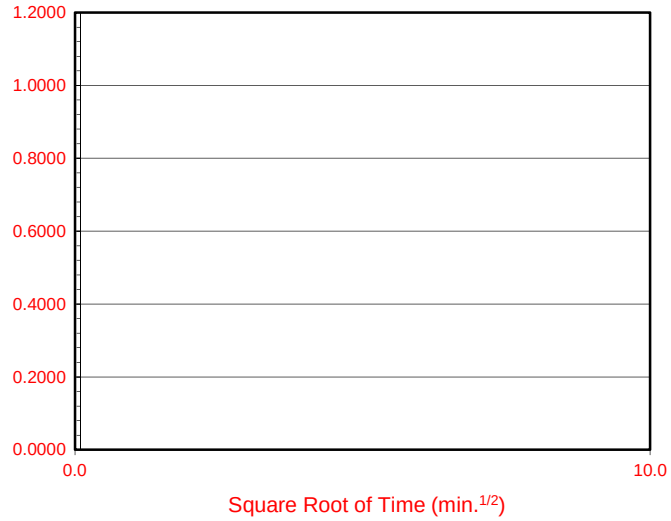
DIRECT SHEAR PLOT

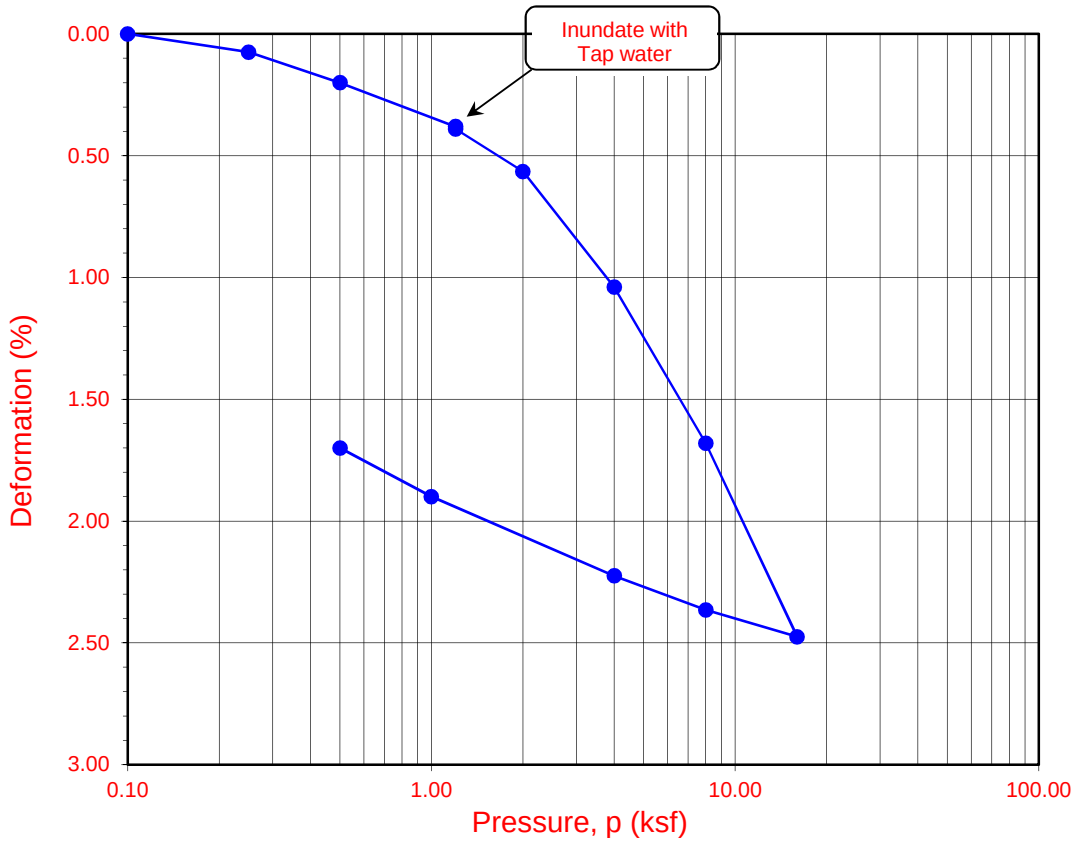
Project Number: 18174-01
Date: Jan-19

Pioneer - Santa Fe Springs

Time Readings







Boring No.	Sample No.	Depth (ft.)	Moisture Content (%)		Dry Density (pcf)		Void Ratio		Degree of Saturation (%)	
			Initial	Final	Initial	Final	Initial	Final	Initial	Final
HS-1	**R-2**	**10.0**	**12.2**	**19.0**	**101.3**	**101.3**	**0.664**	**0.635**	**50**	**77**

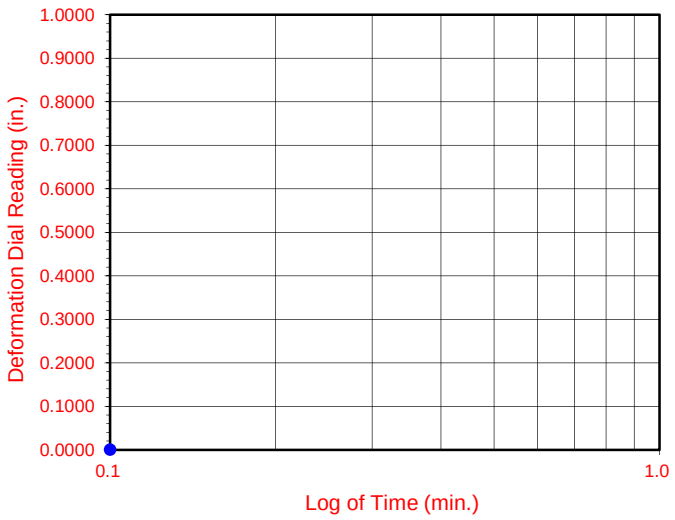
Soil Identification: Olive gray silty sand (SM)

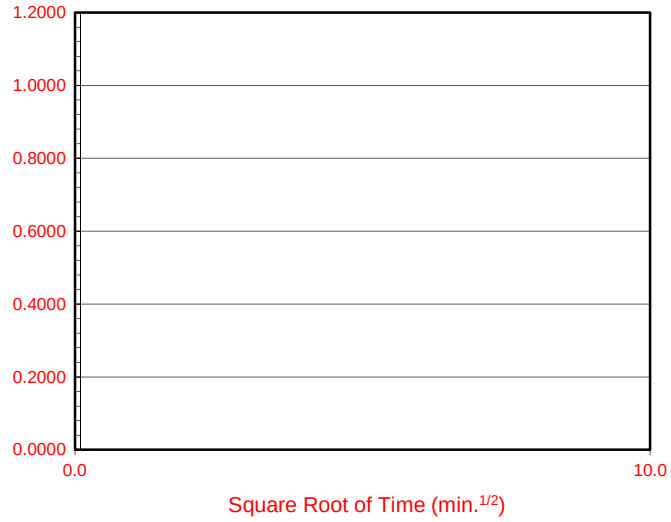
ONE-DIMENSIONAL CONSOLIDATION PROPERTIES of SOILS
ASTM D 2435

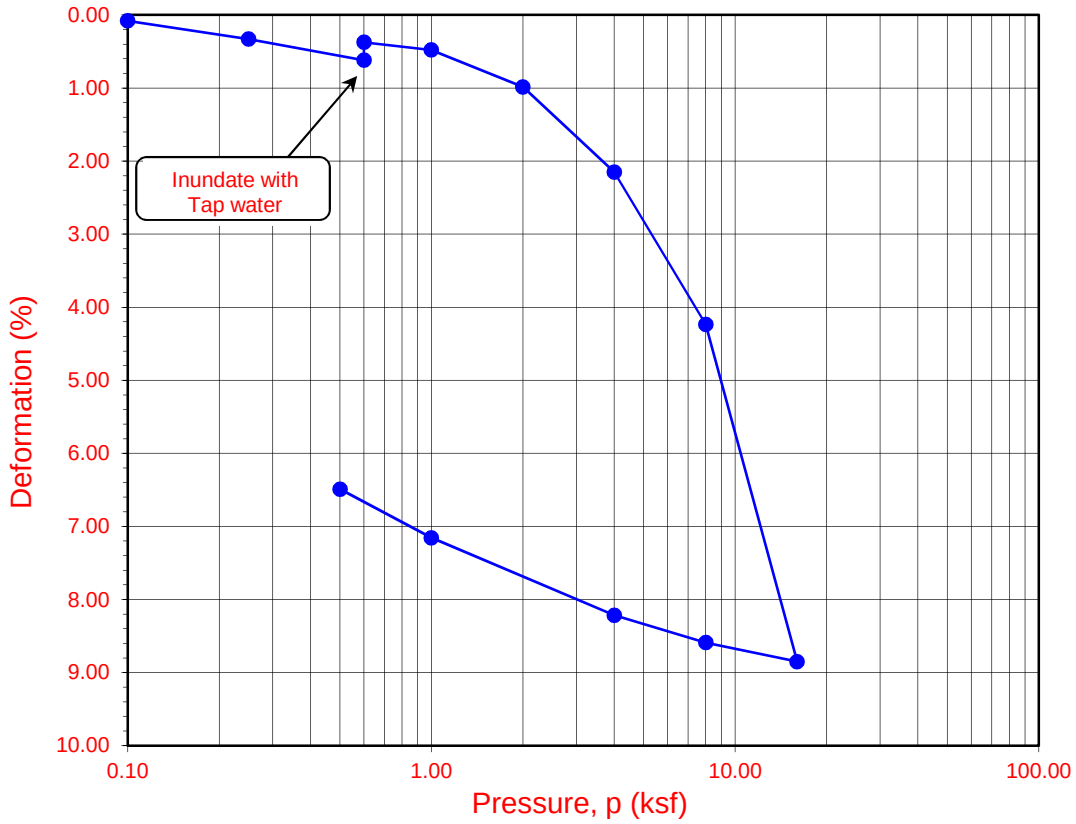
Project No.: 18174-01

Santa Fe Springs

Time Readings







Boring No.	Sample No.	Depth (ft.)	Moisture Content (%)		Dry Density (pcf)		Void Ratio		Degree of Saturation (%)	
			Initial	Final	Initial	Final	Initial	Final	Initial	Final
HS-3	**R-1**	**5.0**	**28.6**	**29.5**	**87.7**	**93.0**	**0.923**	**0.798**	**84**	**98**

Soil Identification: Dark olive brown silt (ML)

ONE-DIMENSIONAL CONSOLIDATION PROPERTIES of SOILS
ASTM D 2435

Project No.: 18174-01

Santa Fe Springs

01-19

ONE-DIMENSIONAL SWELL OR SETTLEMENT POTENTIAL OF COHESIVE SOILS
ASTM D 4546

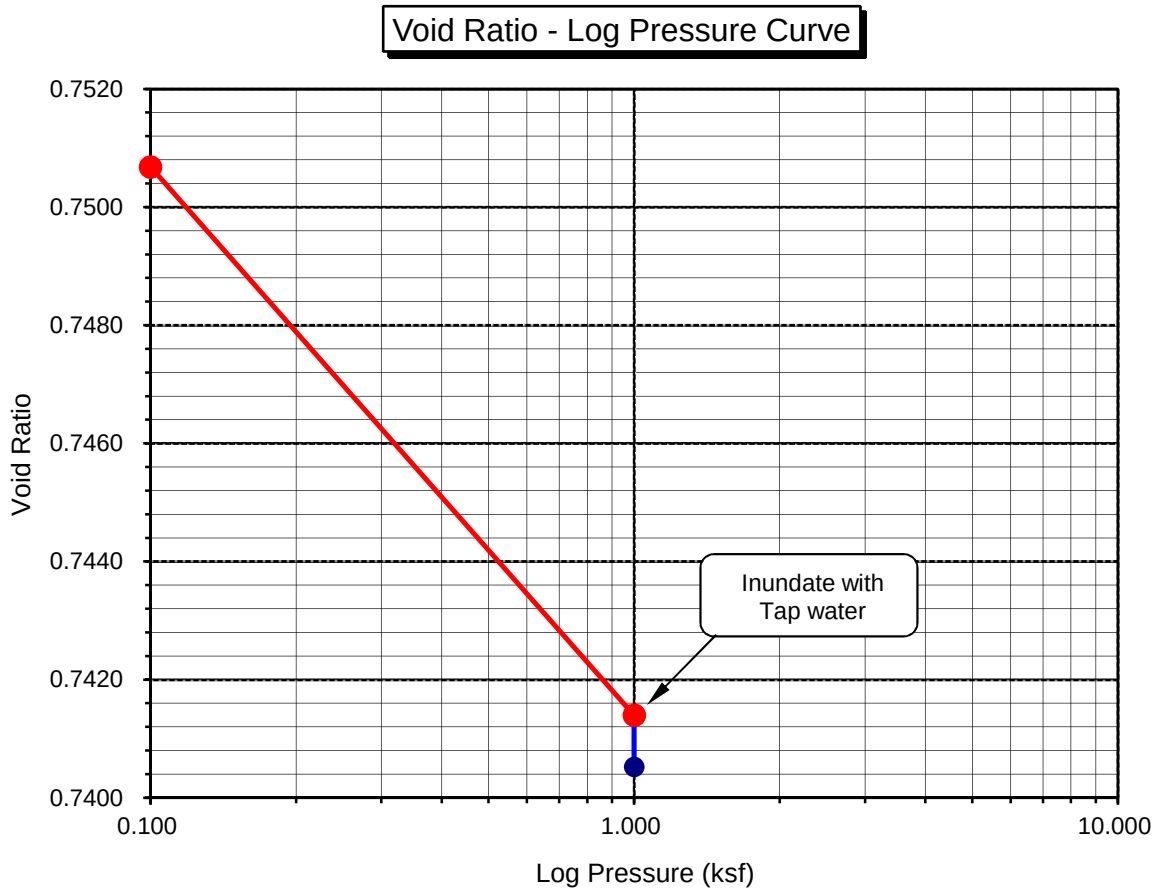
Project Name:	Santa Fe Springs	Tested By:	G. Bathala	Date:	01/18/19
Project No.:	18174-01	Checked By:	J. Ward	Date:	01/25/19
Boring No.:	HS-3	Sample Type:	Ring		
Sample No.:	R-2	Depth (ft.)	7.5		
Sample Description:	Olive brown silty sand (SM)				

Initial Dry Density (pcf):	96.2
Initial Moisture (%):	17.04
Initial Length (in.):	1.0000
Initial Dial Reading:	0.3020
Diameter(in):	2.415

Final Dry Density (pcf):	96.8
Final Moisture (%) :	25.1
Initial Void Ratio:	0.7517
Specific Gravity(assumed):	2.70
Initial Saturation (%)	61.2

Pressure (p) (ksf)	Final Reading (in)	Apparent Thickness (in)	Load Compliance (%)	Swell (+) Settlement (-) % of Sample Thickness	Void Ratio	Corrected Deformation (%)
0.100	0.3014	0.9994	0.00	-0.06	0.7507	-0.06
1.000	0.2944	0.9924	0.17	-0.76	0.7414	-0.59
H2O	0.2939	0.9919	0.17	-0.81	0.7405	-0.64

Percent Swell (+) / Settlement (-) After Inundation = -0.05



Appendix D
Infiltration Test Data

Infiltration Test Data Sheet

LGC Geotechnical, Inc
131 Calle Iglesia Suite A, San Clemente, CA 92672 tel. (949) 369-6141

Project Name: Pioneer - Santa Fe Springs
Project Number: 18174-01
Date: 1/11/2019
Location: I-1

Test hole dimensions (if circular)	
Boring Depth (feet)*:	9.65
Boring Diameter (inches):	8
Pipe Diameter (inches):	3

*measured at time of test

Test pit dimensions (if rectangular)	
Pit Depth (feet):	
Pit Length (feet):	
Pit Breadth (feet):	

Minimum Pre-Soak Head (D_o):
(What the sounder tape should read)
Boring Depth - 1 ft = 8.65

The value on the sounder tape should be slightly **Greater** than this value during testing

Pre-Soak /Pre-Test

No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval (min)	Initial Depth to Water (feet)	Final Depth to Water (feet)	Total Change in Water Level (feet)	Comments
PS-1	12:40	13:40	60.0	2.50	3.80	1.30	1/10/2019
Pre-Test	7:10	7:40	30.0	8.67	9.34	0.67	
Pre-Test	7:44	8:14	30.0	8.6	8.8	0.2	

Main Test Data

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval, Δt (min)	Initial Depth to Water, D_o (feet)	Final Depth to Water, D_f (feet)	Change in Water Level, ΔD (feet)	Surface Area of Test Section (feet ^2)	Raw Percolation Rate (in/hr)
1	8:16	8:46	30.0	7.35	7.86	0.51	4.63	0.9
2	8:46	9:16	30.0	7.86	8.27	0.41	3.67	0.9
3	9:19	9:49	30.0	7.32	7.82	0.50	4.71	0.9
4	9:50	10:20	30.0	7.33	7.82	0.49	4.69	0.9
5	10:21	10:51	30.0	7.36	7.84	0.48	4.64	0.9
6	10:53	11:23	30.0	7.33	7.79	0.46	4.73	0.8
7	11:25	11:55	30.0	7.31	7.78	0.47	4.76	0.8
8	11:57	12:27	30.0	7.35	7.83	0.48	4.66	0.9
9								
10								
11								
12								

Calculated Infiltration Rate	**0.8**
Minimum Reduction Factor	4
Feasibility Infiltration Rate	**0.2**

Sketch:

Notes:

Based on Guidelines from: LA County dated 06/2017
Spreadsheet Revised on: 11/29/2017

LGC Geotechnical, Inc.

Infiltration Test Data Sheet

LGC Geotechnical, Inc
131 Calle Iglesia Suite A, San Clemente, CA 92672 tel. (949) 369-6141

Project Name: Pioneer - Santa Fe Spring
Project Number: 18174-01
Date: 1/11/2019
Location: I-2

Test hole dimensions (if circular)	
Boring Depth (feet)*:	9.82
Boring Diameter (inches):	8
Pipe Diameter (inches):	3

*measured at time of test

Test pit dimensions (if rectangular)	
Pit Depth (feet):	
Pit Length (feet):	
Pit Breadth (feet):	

Minimum Pre-Soak Head (D_o):
(What the sounder tape should read)
Boring Depth - 1 ft = 8.82

The value on the sounder tape should be slightly **Greater** than this value during testing

Pre-Soak /Pre-Test

No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval (min)	Initial Depth to Water (feet)	Final Depth to Water (feet)	Total Change in Water Level (feet)	Comments
PS-1	13:40	14:40	60.0	2.10	3.50	1.40	1/10/2019
Pre-Test	7:25	7:55	30.0	8.73	9.37	0.64	
Pre-Test	7:55	8:25	30.0	8.69	8.88	0.19	

Main Test Data

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval, Δt (min)	Initial Depth to Water, D_o (feet)	Final Depth to Water, D_f (feet)	Change in Water Level, ΔD (feet)	Surface Area of Test Section (feet ^2)	Raw Percolation Rate (in/hr)
1	8:27	8:57	30.0	7.18	7.58	0.40	5.46	0.6
2	8:59	9:29	30.0	7.17	7.56	0.39	5.49	0.6
3	9:30	10:00	30.0	7.19	7.55	0.36	5.48	0.6
4	10:01	10:31	30.0	7.17	7.55	0.38	5.50	0.6
5	10:32	11:02	30.0	7.16	7.53	0.37	5.53	0.6
6	11:03	11:33	30.0	7.08	7.46	0.38	5.69	0.6
7	11:34	12:04	30.0	7.17	7.53	0.36	5.52	0.5
8	12:05	12:35	30.0	7.15	7.51	0.36	5.56	0.5
9								
10								
11								
12								

Calculated Infiltration Rate	**0.5**
Minimum Reduction Factor	4
Feasibility Infiltration Rate	**0.1**

Sketch:

Notes:

Based on Guidelines from: LA County dated 06/2017
Spreadsheet Revised on: 11/29/2017

LGC Geotechnical, Inc.

Infiltration Test Data Sheet

LGC Geotechnical, Inc
131 Calle Iglesia Suite A, San Clemente, CA 92672 tel. (949) 369-6141

Project Name: Pioneer - Santa Fe Spring
Project Number: 18174-01
Date: 1/11/2019
Location: I-3

Test hole dimensions (if circular)	
Boring Depth (feet)*:	9.9
Boring Diameter (inches):	8
Pipe Diameter (inches):	3

*measured at time of test

Test pit dimensions (if rectangular)	
Pit Depth (feet):	
Pit Length (feet):	
Pit Breadth (feet):	

Minimum Pre-Soak Head (D_o):
(What the sounder tape should read)
Boring Depth - 1 ft = 8.9

The value on the sounder tape should be slightly **Greater** than this value during testing

Pre-Soak /Pre-Test

No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval (min)	Initial Depth to Water (feet)	Final Depth to Water (feet)	Total Change in Water Level (feet)	Comments
PS-1	14:40	15:40	60.0	1.80	3.10	1.30	1/10/2019
Pre-Test	8:02	8:32	30.0	8.88	9.52	0.64	
Pre-Test	8:32	9:02	30.0	8.76	9.37	0.61	

Main Test Data

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval, Δt (min)	Initial Depth to Water, D_o (feet)	Final Depth to Water, D_f (feet)	Change in Water Level, ΔD (feet)	Surface Area of Test Section (feet ^2)	Raw Percolation Rate (in/hr)
1	9:04	9:34	30.0	7.27	7.71	0.44	5.40	0.7
2	9:37	10:07	30.0	7.26	7.66	0.40	5.46	0.6
3	10:07	10:37	30.0	7.28	7.66	0.38	5.44	0.6
4	10:38	11:08	30.0	7.22	7.61	0.39	5.55	0.6
5	11:09	11:39	30.0	7.28	7.64	0.36	5.46	0.6
6	11:40	12:10	30.0	7.23	7.60	0.37	5.55	0.6
7	12:11	12:41	30.0	7.25	7.60	0.35	5.53	0.5
8	12:41	13:11	30.0	7.29	7.66	0.37	5.43	0.6
9								
10								
11								
12								

Calculated Infiltration Rate	**0.6**
Minimum Reduction Factor	4
Feasibility Infiltration Rate	**0.1**

Sketch:

Notes:

Based on Guidelines from: LA County dated 06/2017
Spreadsheet Revised on: 11/29/2017

LGC Geotechnical, Inc.

Appendix E
Liquefaction Analysis

Based on *Proceeding of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils*, Technical Report NCEER-97-0022, December 31, 1997
and *Evaluation of Settlments in Sand due to Earthquake Shaking*, Tokimatsu and Seed, 1987

Seismic Event		**Profile Constants**		**Depth to GWT**		**Project Name**	Pioneer Blvd, Santa Fe Springs
Moment Magnitude	7.7	Total Unit Weight (lb/ft^3)	120	During Investigation (ft)	50	**Project Number**	18174-01
Peak Ground Acceleration	0.80 g	Unit Weight of Water (lbs/ft^3	62.4	During Design Event (ft)	10	**Boring**	HS- 1

Determination of Cyclic Resitance Ratio

Sampling Data					During Investigation			Sampling Correction Factors												
		Blow Count		Thickness	Total Stress	Pore Pressure	Effective	Sampler	SPT	Overburden	Energy	Borehole	Rod Length	Sampler Type		Fines				
Depth (ft)	Depth (m)	SPT	Rings	(ft)	Stress (psf)	Pressure (psf)	Stress (psf)	Diameter	N_m	C_N	C_E	C_B	C_R	C_S	$(N_1)_{60}$	Content	$(N_1)_{60cs}$	K_σ	$CRR_{7.5}$	Depth
5	1.5		23	5	720	0	720	0.62	14.26	1.70	1.25	1.00	0.75	1.00	22.77	35	**32.23**	1.000	SPT >30 NF	5
7.5	2.3	4		2.5	1020	0	1020	1.00	4.00	1.43	1.25	1.00	0.75	1.10	5.90	75	**12.08**	1.000	0.131	7.5
10	3.0		7	2.5	1320	0	1320	0.62	4.34	1.26	1.25	1.00	0.75	1.00	5.12	35	**11.10**	1.000	0.120	10
15	4.6	9		5	1920	0	1920	1.00	9.00	1.04	1.25	1.00	0.85	1.10	10.97	75	**18.16**	1.000	0.196	15
20	6.1		40	5	2520	0	2520	0.62	24.80	0.91	1.25	1.00	0.95	1.00	26.81	35	**37.07**	0.964	SPT >30 NF	20
25	7.6	44		5	3120	0	3120	1.00	44.00	0.82	1.25	1.00	0.95	1.10	47.02	5	**47.02**	0.924	SPT >30 NF	25
30	9.1		100	5	3720	0	3720	0.62	62.00	0.75	1.25	1.00	0.95	1.00	55.16	35	**71.01**	0.889	SPT >30 NF	30
35	10.7	78		5	4320	0	4320	1.00	78.00	0.70	1.25	1.00	1.00	1.10	74.56	**35**	**94.23**	0.858	SPT >30 NF	35
40	12.2		100	5	4920	0	4920	0.62	62.00	0.65	1.25	1.00	1.00	1.00	50.49	75	**65.59**	0.830	SPT >30 NF	40
45	13.7	65		5	5520	0	5520	1.00	65.00	0.62	1.25	1.00	1.00	1.10	54.97	**35**	**70.78**	0.804	SPT >30 NF	45
50	15.2		100	5	6120	0	6120	0.62	62.00	0.58	1.25	1.00	1.00	1.00	45.27	35	**59.17**	0.782	SPT >30 NF	50
				50																

Determination of Cyclic Stress Ratio

Sampling Data					During Design Event							
		Blow Count			Total Stress	Pore Pressure	Effective					
Depth (ft)	Depth (m)	SPT	Rings	Thickness	Stress (psf)	Pressure (psf)	Stress (psf)	r_d	CSR	MSF	FS	Depth
5	1.52		23	5	600	0	600	0.99024	0.514923	0.935	Above GWT	5
7.5	2.29	4		2.5	900	0	900	0.98456	0.511971	0.935	Above GWT	7.5
10	3.05		7	2.5	1200	0	1200	0.97914	0.509154	0.935	0.22	10
15	4.57	9		5	1800	312	1488	0.96856	0.609254	0.935	0.30	15
20	6.10		40	5	2400	624	1776	0.9569	0.672413	0.935	Corr. SPT>30	20
25	7.62	44		5	3000	936	2064	0.94183	0.711851	0.935	Corr. SPT>30	25
30	9.14		100	5	3600	1248	2352	0.92058	0.732705	0.935	Corr. SPT>30	30
35	10.67	78		5	4200	1560	2640	0.89062	0.736784	0.935	Corr. SPT>30	35
40	12.19		100	5	4800	1872	2928	0.85103	0.725472	0.935	Corr. SPT>30	40
45	13.72	65		5	5400	2184	3216	0.80363	0.701677	0.935	Corr. SPT>30	45
50	15.24		100	5	6000	2496	3504	0.75271	0.670225	0.935	Corr. SPT>30	50
												0
												0
												0
												0
												0
												0
												0
												0
												0

Liquefaction-Induced Settlement Analysis

Depth	Vol. Strain (%) SP117 Fig7.11	Settlement (in.)
5.0		
7.5		
10.0	2.40	0.7
15.0	CLAY	
20.0		
25.0		
30.0		
35.0		
40.0		
45.0		
50.0		
	Total =	**0.7**

Appendix F
General Earthwork Specifications for Rough Grading

General Earthwork and Grading Specifications for Rough Grading

1.0 General

1.1 Intent

These General Earthwork and Grading Specifications are for the grading and earthwork shown on the approved grading plan(s) and/or indicated in the geotechnical report(s). These Specifications are a part of the recommendations contained in the geotechnical report(s). In case of conflict, the specific recommendations in the geotechnical report shall supersede these more general Specifications. Observations of the earthwork by the project Geotechnical Consultant during the course of grading may result in new or revised recommendations that could supersede these specifications or the recommendations in the geotechnical report(s).

1.2 The Geotechnical Consultant of Record

Prior to commencement of work, the owner shall employ a qualified Geotechnical Consultant of Record (Geotechnical Consultant). The Geotechnical Consultant shall be responsible for reviewing the approved geotechnical report(s) and accepting the adequacy of the preliminary geotechnical findings, conclusions, and recommendations prior to the commencement of the grading.

Prior to commencement of grading, the Geotechnical Consultant shall review the "work plan" prepared by the Earthwork Contractor (Contractor) and schedule sufficient personnel to perform the appropriate level of observation, mapping, and compaction testing.

During the grading and earthwork operations, the Geotechnical Consultant shall observe, map, and document the subsurface exposures to verify the geotechnical design assumptions. If the observed conditions are found to be significantly different than the interpreted assumptions during the design phase, the Geotechnical Consultant shall inform the owner, recommend appropriate changes in design to accommodate the observed conditions, and notify the review agency where required.

The Geotechnical Consultant shall observe the moisture-conditioning and processing of the subgrade and fill materials and perform relative compaction testing of fill to confirm that the attained level of compaction is being accomplished as specified. The Geotechnical Consultant shall provide the test results to the owner and the Contractor on a routine and frequent basis.

1.3 The Earthwork Contractor

The Earthwork Contractor (Contractor) shall be qualified, experienced, and knowledgeable in earthwork logistics, preparation and processing of ground to receive fill, moisture-conditioning and processing of fill, and compacting fill. The Contractor shall review and accept the plans, geotechnical report(s), and these Specifications prior to commencement of grading. The Contractor shall be solely responsible for performing the grading in accordance with the project plans and specifications. The Contractor shall prepare and submit to the owner and the Geotechnical Consultant a work plan that indicates the sequence of earthwork grading, the number of “equipment” of work and the estimated quantities of daily earthwork

contemplated for the site prior to commencement of grading. The Contractor shall inform the owner and the
Geotechnical Consultant of changes in work schedules and updates to the work plan at least 24 hours in advance of such changes so that appropriate personnel will be available for observation and testing. The Contractor shall not assume that the Geotechnical Consultant is aware of all grading operations.

The Contractor shall have the sole responsibility to provide adequate equipment and methods to accomplish the earthwork in accordance with the applicable grading codes and agency ordinances, these Specifications, and the recommendations in the approved geotechnical report(s) and grading plan(s). If, in the opinion of the Geotechnical Consultant, unsatisfactory conditions, such as unsuitable soil, improper moisture condition, inadequate compaction, insufficient buttress key size, adverse weather, etc., are resulting in a quality of work less than required in these specifications, the Geotechnical Consultant shall reject the work and may recommend to the owner that construction be stopped until the conditions are rectified. It is the contractor's sole responsibility to provide proper fill compaction.

2.0 Preparation of Areas to be Filled

2.1 Clearing and Grubbing

Vegetation, such as brush, grass, roots, and other deleterious material shall be sufficiently removed and properly disposed of in a method acceptable to the owner, governing agencies, and the Geotechnical Consultant.

The Geotechnical Consultant shall evaluate the extent of these removals depending on specific site conditions. Earth fill material shall not contain more than 1 percent of organic materials (by volume). Nesting of the organic materials shall not be allowed.

If potentially hazardous materials are encountered, the Contractor shall stop work in the affected area, and a hazardous material specialist shall be informed immediately for proper evaluation and handling of these materials prior to continuing to work in that area.

As presently defined by the State of California, most refined petroleum products (gasoline, diesel fuel, motor oil, grease, coolant, etc.) have chemical constituents that are considered to be hazardous waste. As such, the indiscriminate dumping or spillage of these fluids onto the ground may constitute a misdemeanor, punishable by fines and/or imprisonment, and shall not be allowed. The contractor is responsible for all hazardous waste relating to his work. The Geotechnical Consultant does not have expertise in this area. If hazardous waste is a concern, then the Client should acquire the services of a qualified environmental assessor.

2.2 Processing

Existing ground that has been declared satisfactory for support of fill by the Geotechnical Consultant shall be scarified to a minimum depth of 6 inches. Existing ground that is not satisfactory shall be over-excavated as specified in the following section. Scarification shall continue until soils are broken down and free of oversize material and the working surface is reasonably uniform, flat, and free of uneven features that would inhibit uniform compaction.

2.3 Over-excavation

In addition to removals and over-excavations recommended in the approved geotechnical report(s) and the grading plan, soft, loose, dry, saturated, spongy, organic-rich, highly fractured or otherwise unsuitable ground shall be over-excavated to competent ground as evaluated by the Geotechnical Consultant during grading.

2.4 Benching

Where fills are to be placed on ground with slopes steeper than 5:1 (horizontal to vertical units), the ground shall be stepped or benched. Please see the Standard Details for a graphic illustration. The lowest bench or key shall be a minimum of 15 feet wide and at least 2 feet deep, into competent material as evaluated by the Geotechnical Consultant. Other benches shall be excavated a minimum height of 4 feet into competent material or as otherwise recommended by the Geotechnical Consultant. Fill placed on ground sloping flatter than 5:1 shall also be benched or otherwise over-excavated to provide a flat subgrade for the fill.

2.5 Evaluation/Acceptance of Fill Areas

All areas to receive fill, including removal and processed areas, key bottoms, and benches, shall be observed, mapped, elevations recorded, and/or tested prior to being accepted by the Geotechnical Consultant as suitable to receive fill. The Contractor shall obtain a written acceptance from the Geotechnical Consultant prior to fill placement. A licensed surveyor shall provide the survey control for determining elevations of processed areas, keys, and benches.

3.0 Fill Material

3.1 General

Material to be used as fill shall be essentially free of organic matter and other deleterious substances evaluated and accepted by the Geotechnical Consultant prior to placement. Soils of poor quality, such as those with unacceptable gradation, high expansion potential, or low strength shall be placed in areas acceptable to the Geotechnical Consultant or mixed with other soils to achieve satisfactory fill material.

3.2 Oversize

Oversize material defined as rock, or other irreducible material with a maximum dimension greater than 8 inches, shall not be buried or placed in fill unless location, materials, and placement methods are specifically accepted by the Geotechnical Consultant. Placement operations shall be such that nesting of oversized material does not occur and such that oversize material is completely surrounded by compacted or densified fill. Oversize material shall not be placed within 10 vertical feet of finish grade or within 2 feet of future utilities or underground construction.

3.3 Import

If importing of fill material is required for grading, proposed import material shall meet the requirements of the geotechnical consultant. The potential import source shall be given to the Geotechnical Consultant at least 48 hours (2 working days) before importing begins so that its suitability can be determined and appropriate tests performed.

4.0 Fill Placement and Compaction

4.1 Fill Layers

Approved fill material shall be placed in areas prepared to receive fill (per Section 3.0) in near-horizontal layers not exceeding 8 inches in loose thickness. The Geotechnical Consultant may accept thicker layers if testing indicates the grading procedures can adequately compact the thicker layers. Each layer shall be spread evenly and mixed thoroughly to attain relative uniformity of material and moisture throughout.

4.2 Fill Moisture Conditioning

Fill soils shall be watered, dried back, blended, and/or mixed, as necessary to attain a relatively uniform moisture content at or slightly over optimum. Maximum density and optimum soil moisture content tests shall be performed in accordance with the American Society of Testing and Materials (ASTM Test Method D1557).

4.3 Compaction of Fill

After each layer has been moisture-conditioned, mixed, and evenly spread, it shall be uniformly compacted to not less than 90 percent of maximum dry density (ASTM Test Method D1557). Compaction equipment shall be adequately sized and be either specifically designed for soil compaction or of proven reliability to efficiently achieve the specified level of compaction with uniformity.

4.4 Compaction of Fill Slopes

In addition to normal compaction procedures specified above, compaction of slopes shall be accomplished by backrolling of slopes with sheepsfoot rollers at increments of 3 to 4 feet in fill elevation, or by other methods producing satisfactory results acceptable to the Geotechnical Consultant. Upon completion of grading, relative compaction of the fill, out to the slope face, shall be at least 90 percent of maximum density per ASTM Test Method D1557.

4.5 Compaction Testing

Field tests for moisture content and relative compaction of the fill soils shall be performed by the Geotechnical Consultant. Location and frequency of tests shall be at the Consultant's discretion based on field conditions encountered. Compaction test locations will not necessarily be selected on a random basis. Test locations shall be selected to verify adequacy of compaction levels in areas that are judged to be prone to inadequate compaction (such as close to slope faces and at the fill/bedrock benches).

4.6 Frequency of Compaction Testing

Tests shall be taken at intervals not exceeding 2 feet in vertical rise and/or 1,000 cubic yards of compacted fill soils embankment. In addition, as a guideline, at least one test shall be taken on slope faces for each 5,000 square feet of slope face and/or each 10 feet of vertical height of slope. The Contractor shall assure that fill construction is such that the testing schedule can be accomplished by the Geotechnical Consultant. The Contractor shall stop or slow down the earthwork construction if these minimum standards are not met.

4.7 Compaction Test Locations

The Geotechnical Consultant shall document the approximate elevation and horizontal coordinates of each test location. The Contractor shall coordinate with the project surveyor to assure that sufficient grade stakes are established so that the Geotechnical Consultant can determine the test locations with sufficient accuracy. At a minimum, two grade stakes within a horizontal distance of 100 feet and vertically less than
5 feet apart from potential test locations shall be provided.

5.0 Subdrain Installation

Subdrain systems shall be installed in accordance with the approved geotechnical report(s), the grading plan, and the Standard Details. The Geotechnical Consultant may recommend additional subdrains and/or changes in subdrain extent, location, grade, or material depending on conditions encountered during grading. All subdrains shall be surveyed by a land surveyor/civil engineer for line and grade after installation and prior to burial. Sufficient time should be allowed by the Contractor for these surveys.

6.0 Excavation

Excavations, as well as over-excavation for remedial purposes, shall be evaluated by the Geotechnical Consultant during grading. Remedial removal depths shown on geotechnical plans are estimates only. The actual extent of removal shall be determined by the Geotechnical Consultant based on the field evaluation of exposed conditions during grading. Where fill-over-cut slopes are to be graded, the cut portion of the slope shall be made, evaluated, and accepted by the Geotechnical Consultant prior to placement of materials for construction of the fill portion of the slope, unless otherwise recommended by the Geotechnical Consultant.

7.0 Trench Backfills

7.1 The Contractor shall follow all OHSA and Cal/OSHA requirements for safety of trench excavations.

7.2 All bedding and backfill of utility trenches shall be done in accordance with the applicable provisions of Standard Specifications of Public Works Construction. Bedding material shall have a Sand Equivalent greater than 30 (SE>30). The bedding shall be placed to 1 foot over

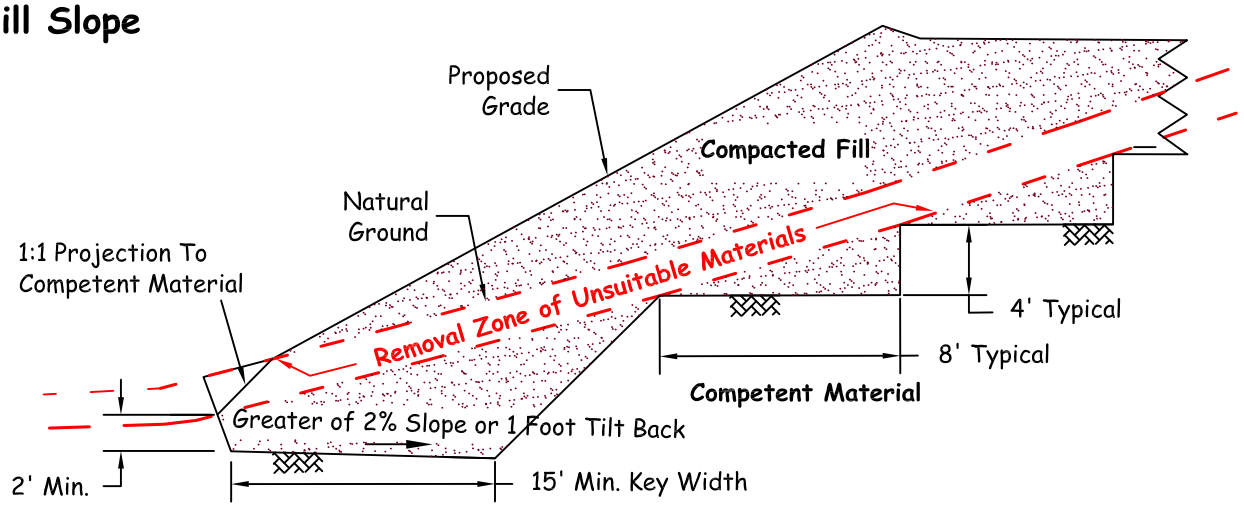
the top of the conduit and densified by jetting. Backfill shall be placed and densified to a minimum of 90 percent of maximum from 1 foot above the top of the conduit to the surface.

7.3 The jetting of the bedding around the conduits shall be observed by the Geotechnical Consultant.

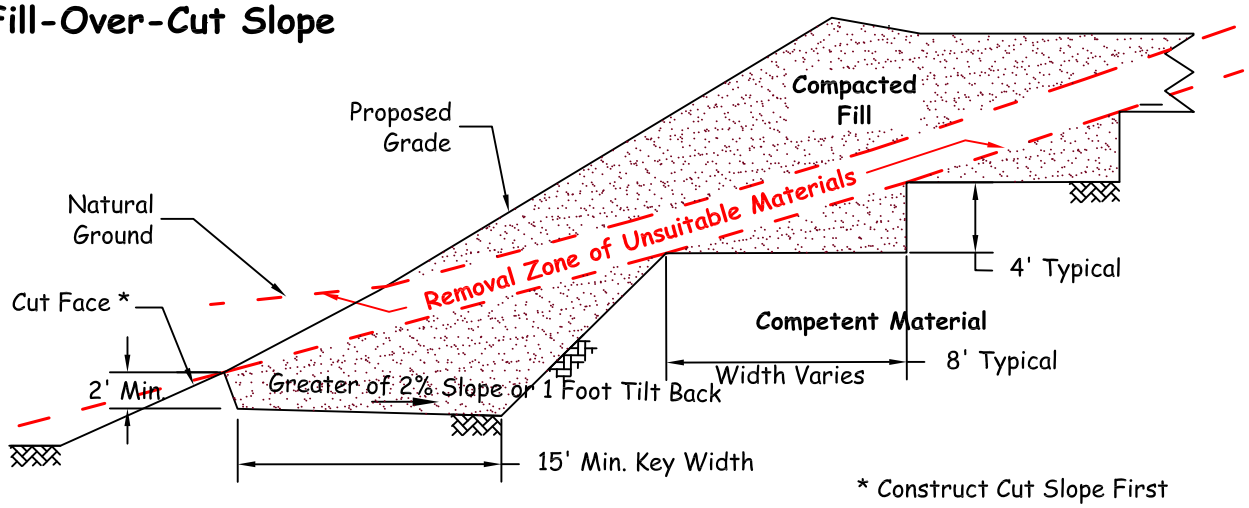
7.4 The Geotechnical Consultant shall test the trench backfill for relative compaction. At least one test should be made for every 300 feet of trench and 2 feet of fill.

7.5 Lift thickness of trench backfill shall not exceed those allowed in the Standard Specifications of Public Works Construction unless the Contractor can demonstrate to the Geotechnical Consultant that the fill lift can be compacted to the minimum relative compaction by his alternative equipment and method.

Fill Slope

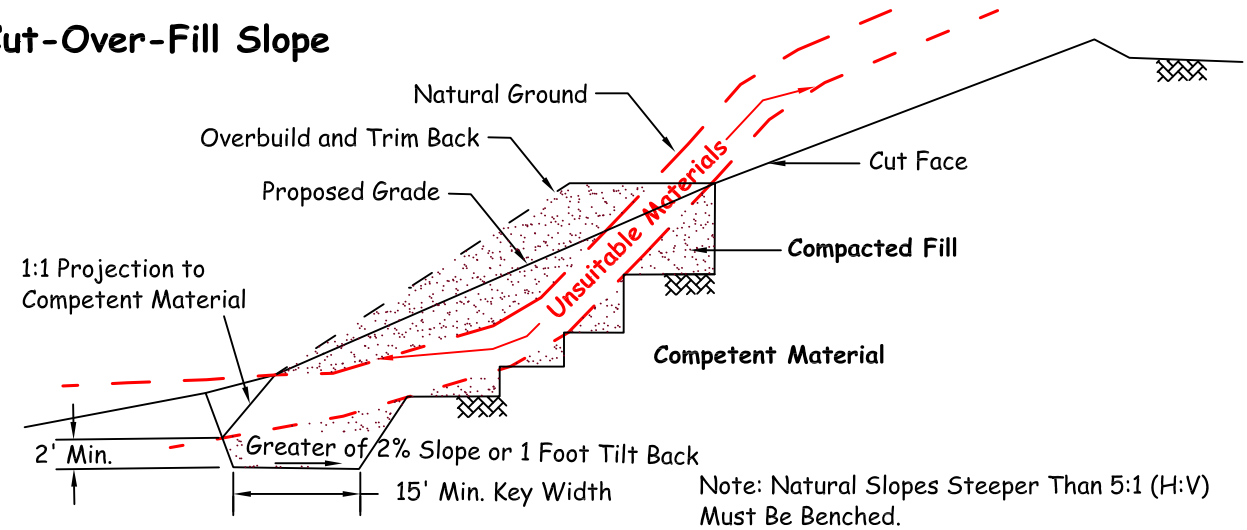


Fill-Over-Cut Slope



* Construct Cut Slope First

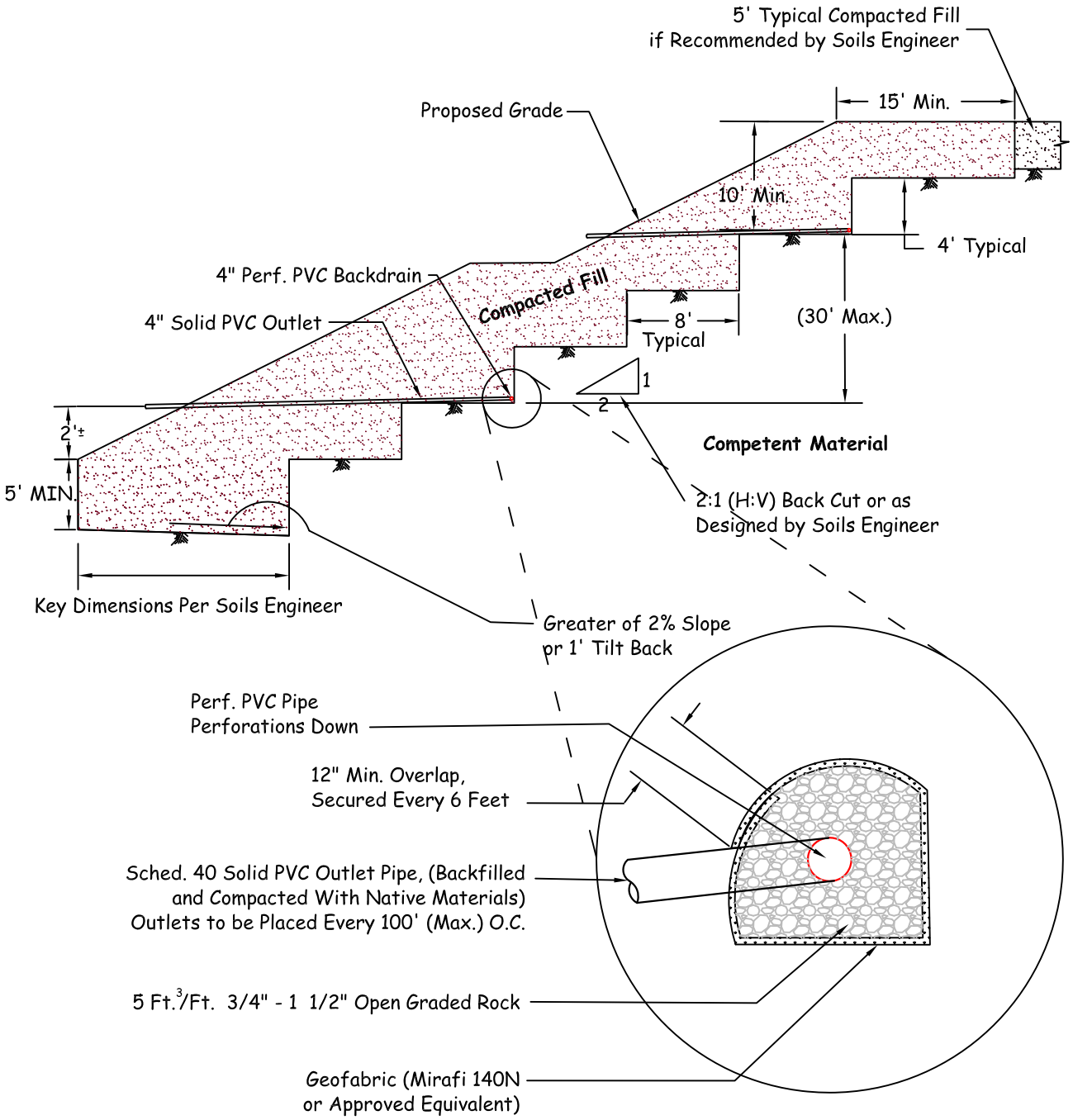
Cut-Over-Fill Slope



Note: Natural Slopes Steeper Than 5:1 (H:V) Must Be Benched.

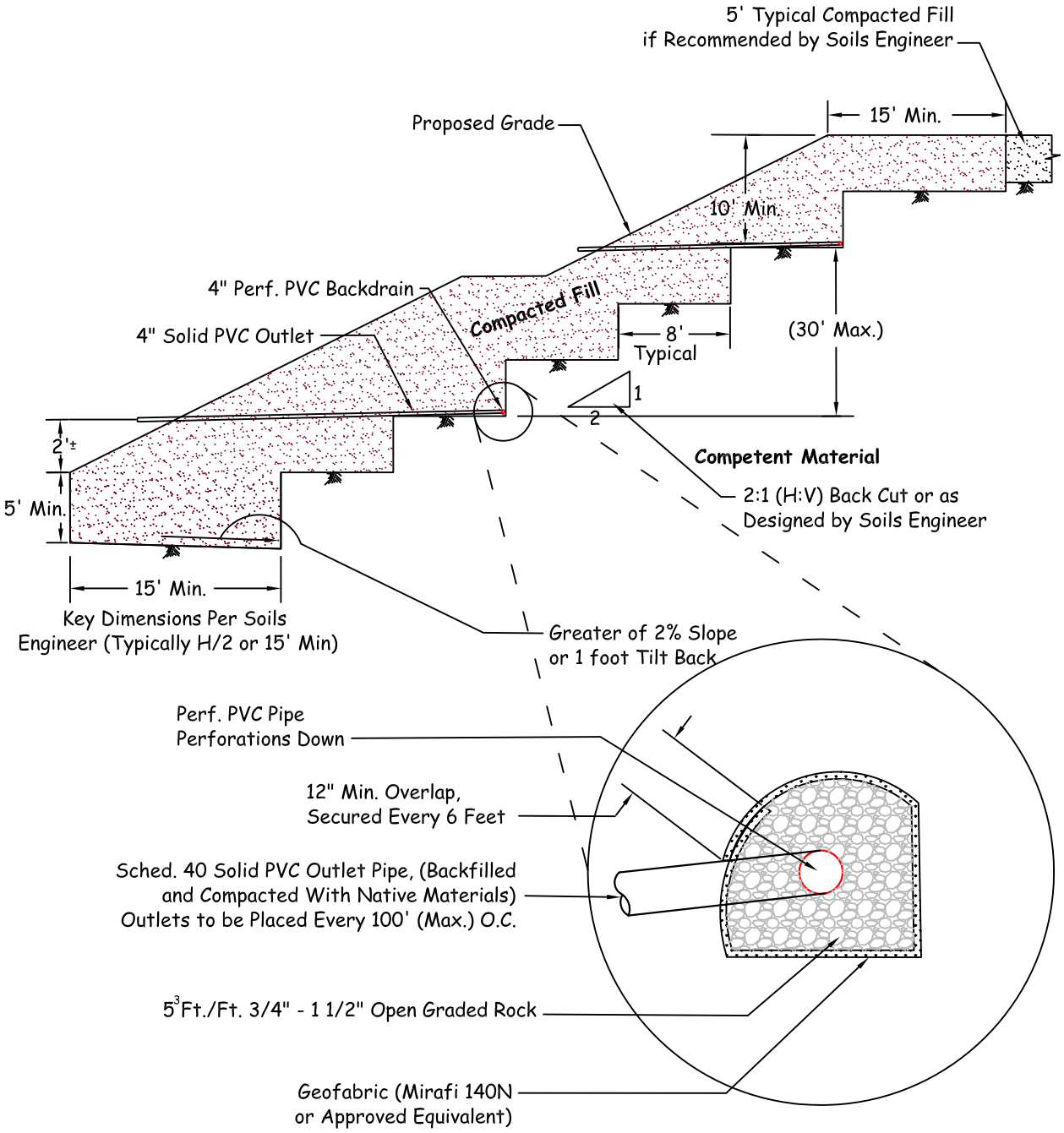
LGC Geotechnical, Inc.

KEYING AND BENCHING



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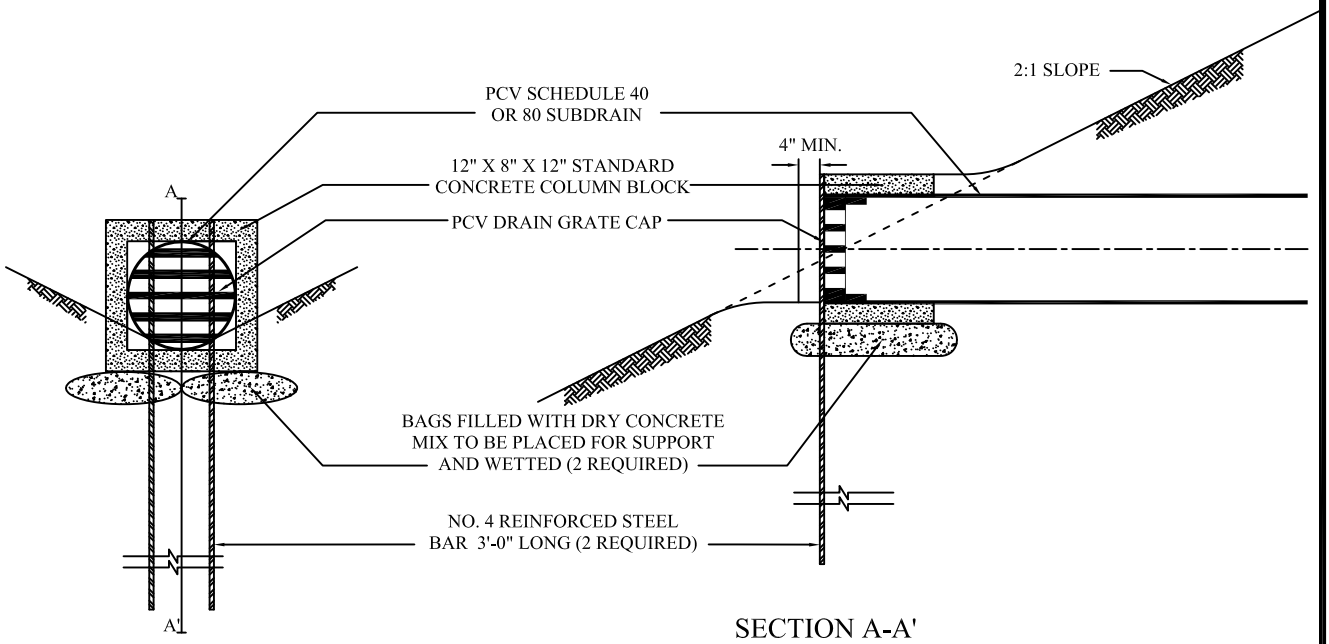
TYPICAL BUTTRESS DETAIL



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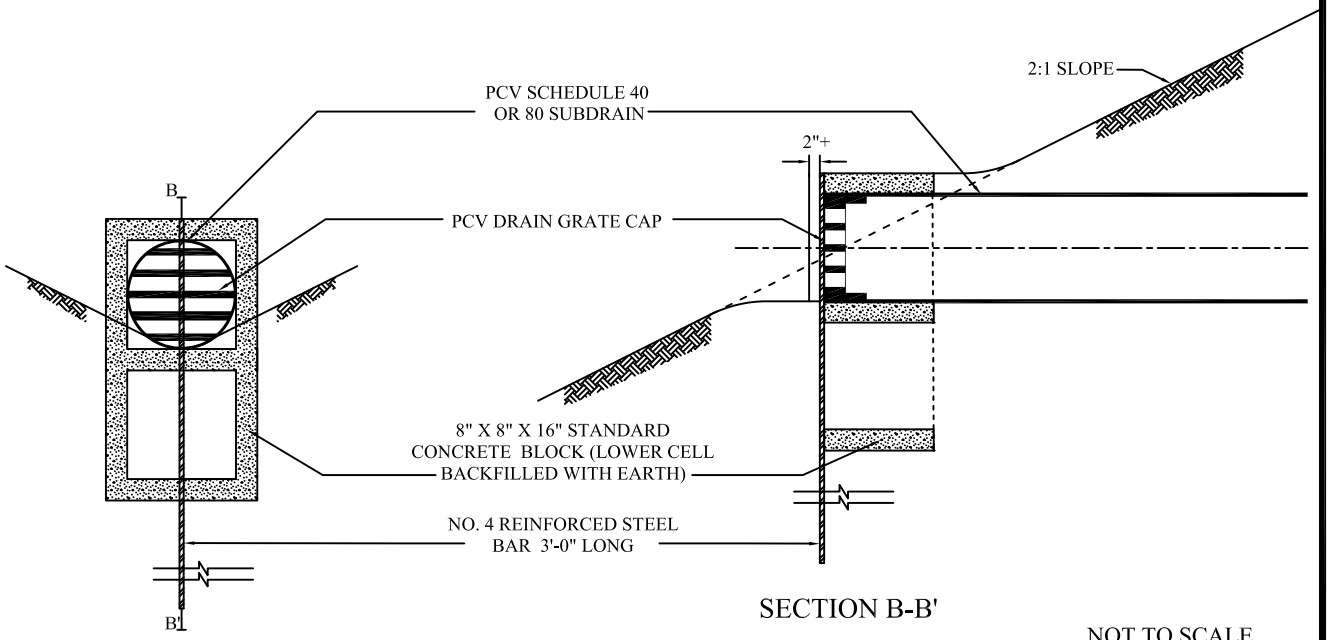
TYPICAL STABILIZATION FILL DETAIL

SUBDRAIN OUTLET MARKER -6" & 8" PIPE



SECTION A-A'

SUBDRAIN OUTLET MARKER -4" PIPE



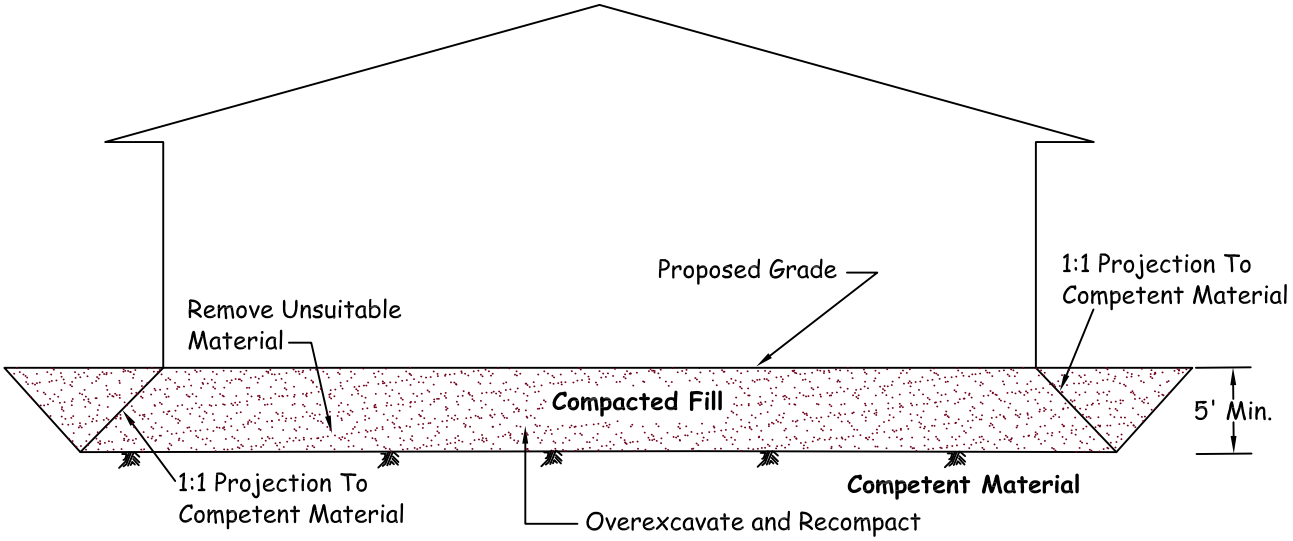
SECTION B-B'

NOT TO SCALE

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SUBDRAIN OUTLET MARKER DETAIL

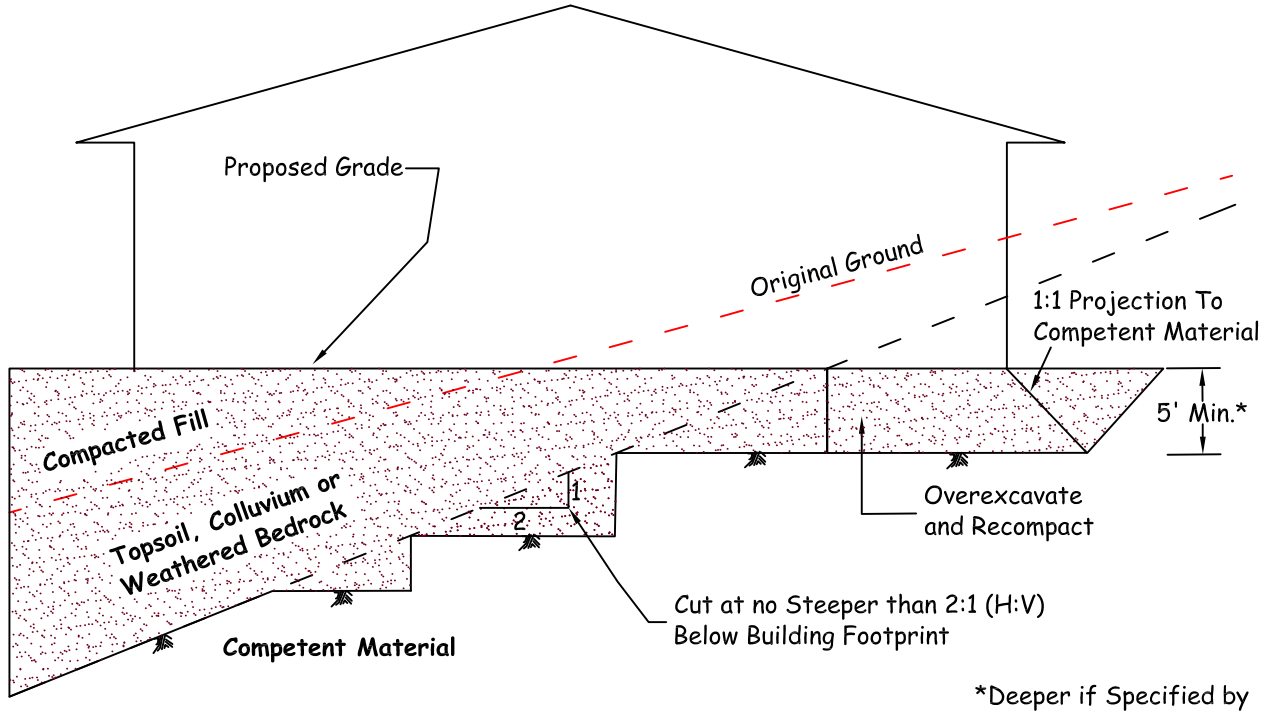
Cut Lot
(Exposing Unsuitable Soils at Design Grade)



Note 1: Removal Bottom Should be Graded With Minimum 2% Fall Towards Street or Other Suitable Area (as Determined by Soils Engineer) to Avoid Ponding Below Building

Note 2: Where Design Cut Lots are Excavated Entirely Into Competent Material, Overexcavation May Still be Required for Hard-Rock Conditions or for Materials With Variable Expansion Characteristics.

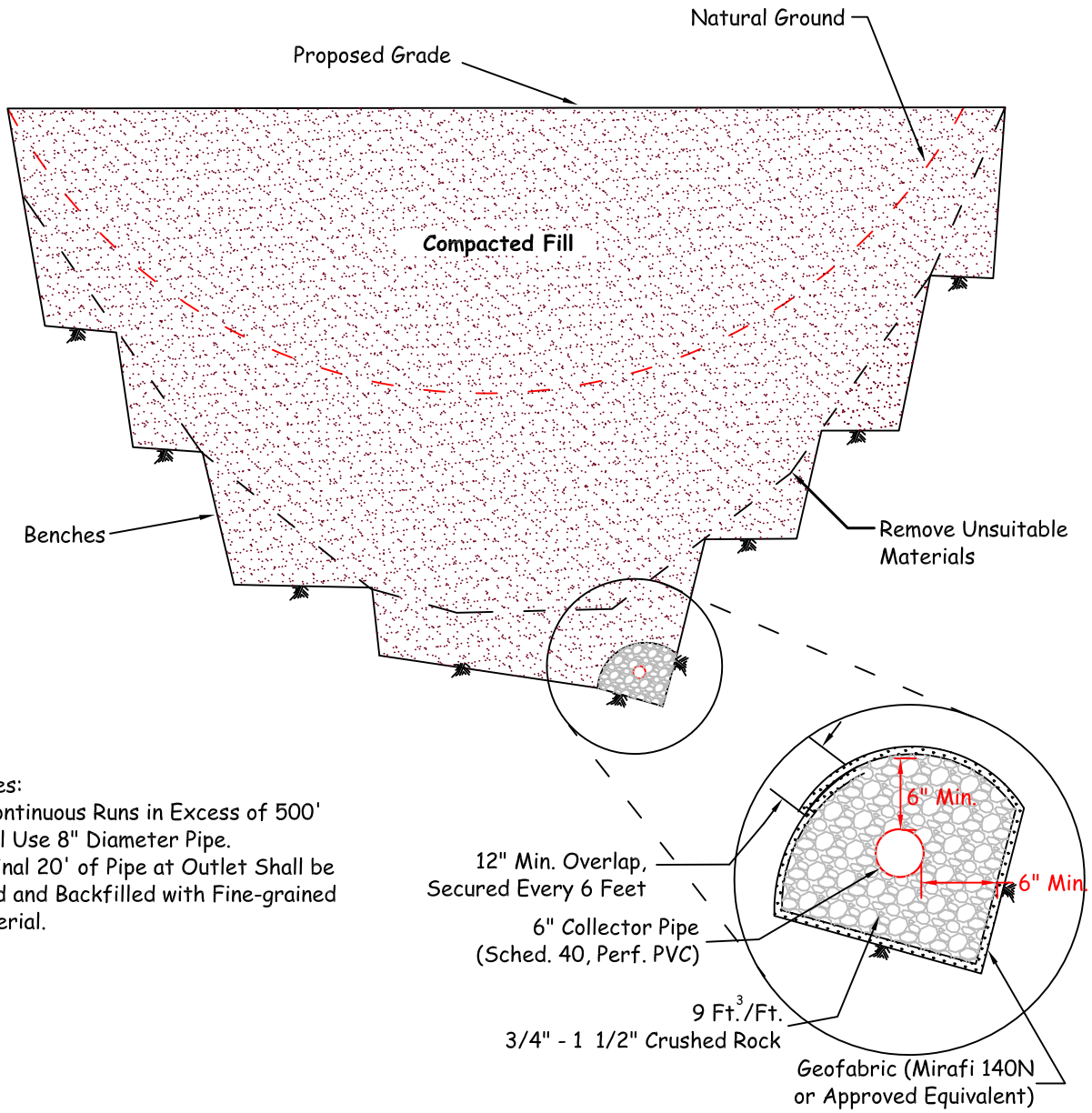
Cut/Fill Transition Lot



*Deeper if Specified by Soils Engineer

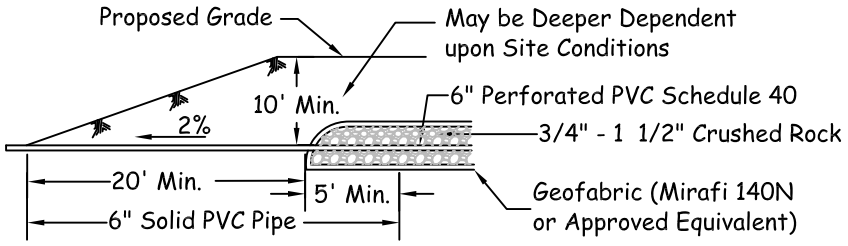
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CUT AND TRANSITION LOT OVEREXCAVATION DETAIL



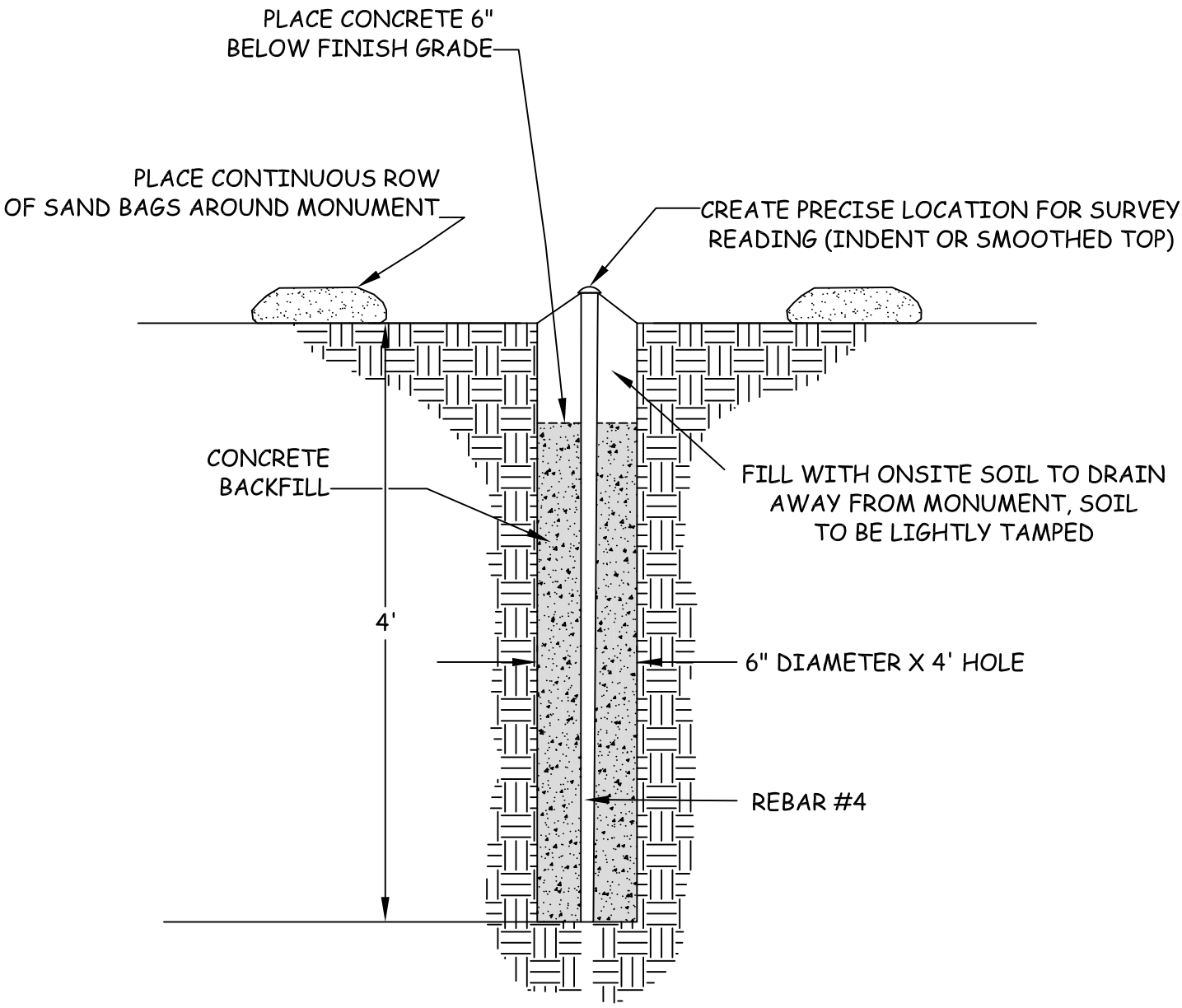
Notes:
1) Continuous Runs in Excess of 500' Shall Use 8" Diameter Pipe.
2) Final 20' of Pipe at Outlet Shall be Solid and Backfilled with Fine-grained Material.

Proposed Outlet Detail



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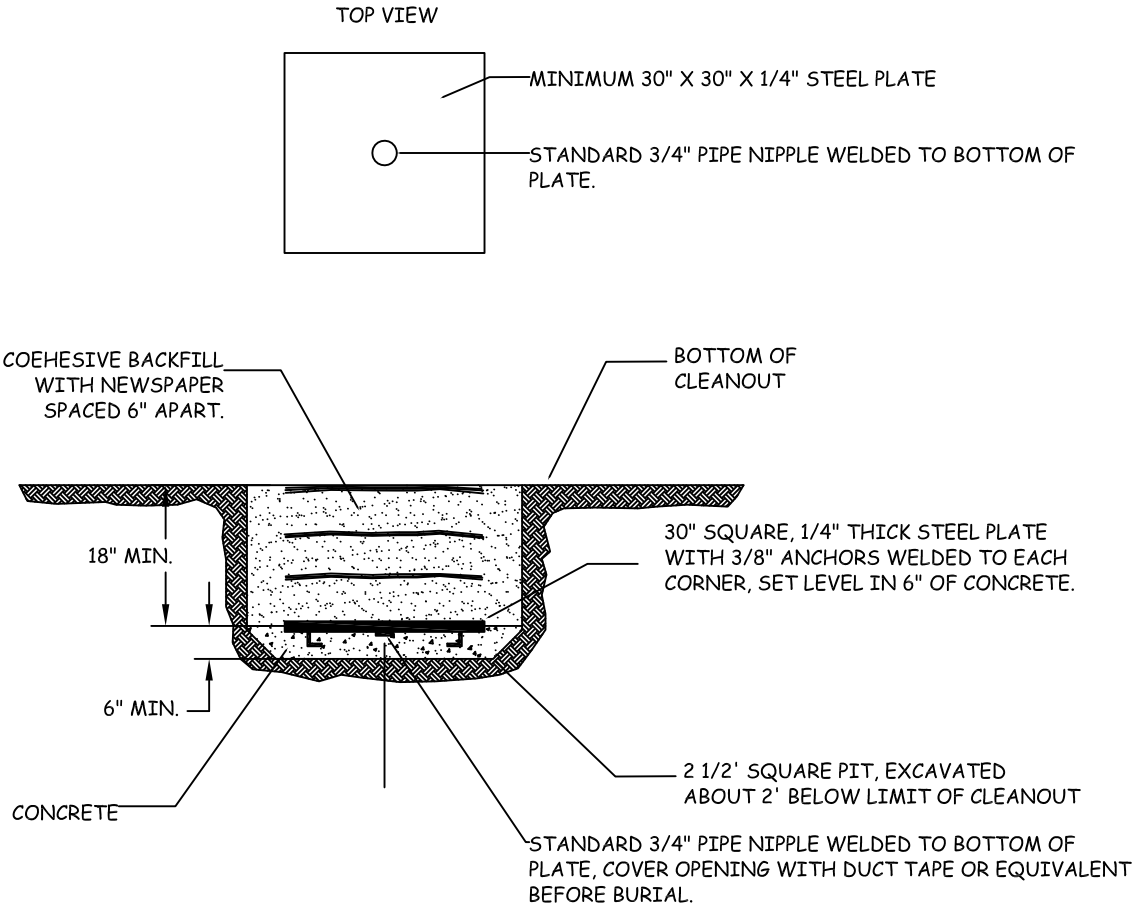
CANYON SUBDRAINS



NO CONSTRUCTION EQUIPMENT WITHIN 25 FEET
OF ANY INSTALLED SETTLEMENT MONUMENTS

LGC Geotechnical, Inc.

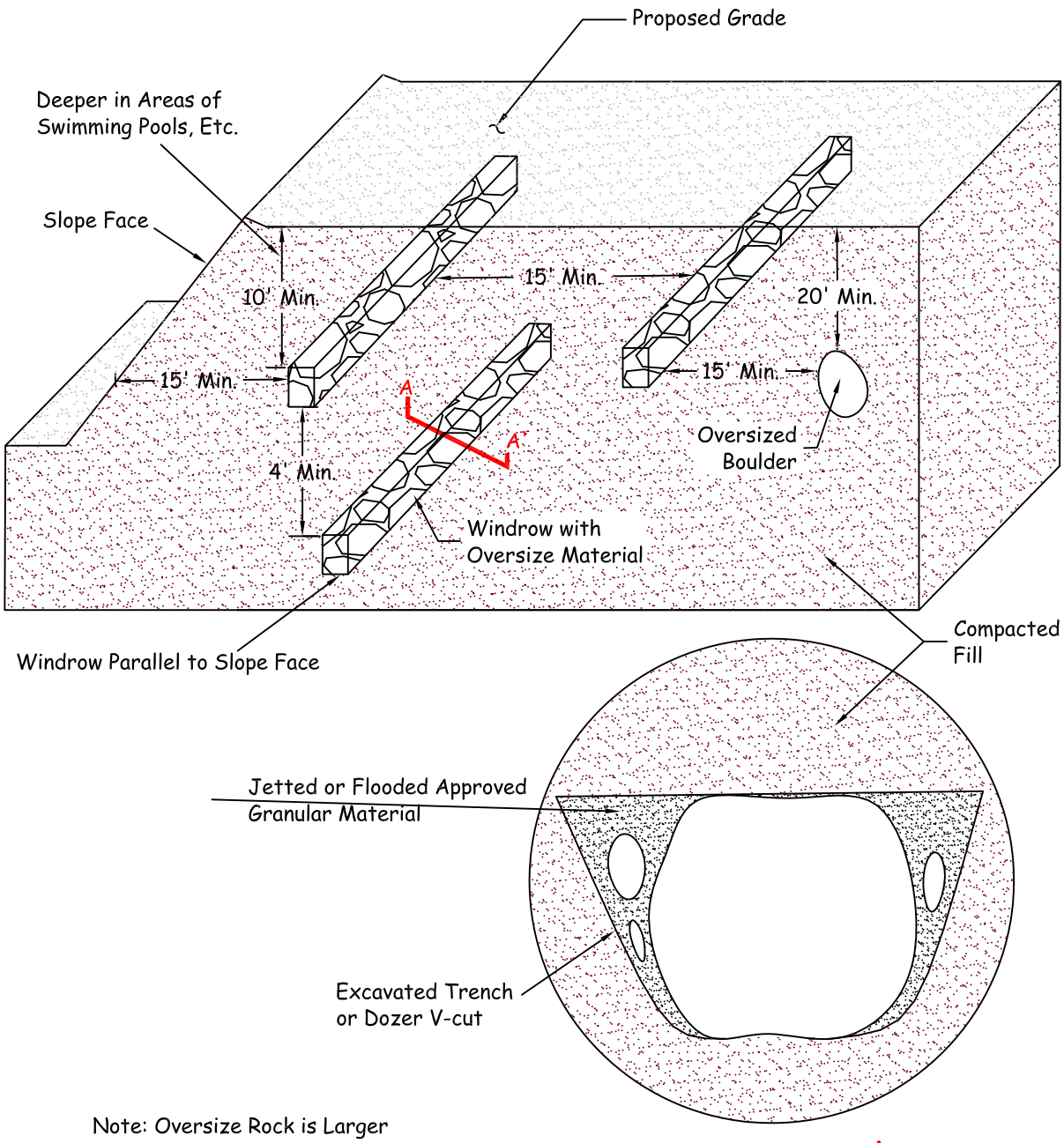
TYPICAL SURFACE SETTLEMENT MONUMENT



1. SURVEY FOR HORIZONTAL AND VERTICAL LOCATION TO NEAREST .01 INCH PRIOR TO BACKFILL USING KNOW LOCATIONS THAT WILL REMAIN INTACT DURING THE DURATION OF THE MONITORING PROGRAM. KNOW POINTS EXPLICITELY NOT ALLOWED ARE THOSE LOCATED ON FILL OR THAT WILL BE DESTROYED DURING GRADING.
2. IN THE EVENT OF DAMAGE TO SETTLEMENT PLATE DURING GRADING, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE GEOTECHNICAL ENGINEER AND SHALL BE RESPONSIBLE FOR RESTORING THE SETTLEMENT PLATES TO WORKING ORDER.
3. DRILL TO RECOVER AND ATTACH RISER PIPE.

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TYPICAL SETTLEMENT PLATE AND RISER



Note: Oversize Rock is Larger than 8" in Maximum Dimension.

Section A-A'

LGC Geotechnical, Inc.

OVERSIZE ROCK DISPOSAL DETAIL

APPENDIX E: GREENHOUSE GAS ANALYSIS

Pioneer Boulevard Development

GREENHOUSE GAS ANALYSIS

CITY OF SANTA FE SPRINGS

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AUGUST 19, 2019

TABLE OF CONTENTS

TABLE OF CONTENTS ..... **I**
APPENDICES ..... **II**
LIST OF EXHIBITS ..... **II**
LIST OF TABLES ..... **II**
LIST OF ABBREVIATED TERMS ..... **III**
EXECUTIVE SUMMARY **1**
ES.1 Summary of Findings 1
ES.2 Project Requirements 1
1 INTRODUCTION **4**
1.1 Site Location 4
1.2 Project Study Area 4
1.3 Project Description 4
2 CLIMATE CHANGE SETTING **8**
2.1 Introduction to Global Climate Change 8
2.2 Global Climate Change Defined 8
2.3 Greenhouse Gases 8
2.4 Global Warming Potential 15
2.5 Greenhouse Gas Emissions Inventories 15
2.6 Effects of Climate Change in California 16
2.7 Regulatory Setting 18
2.8 Thresholds of Significance 40
3 PROJECT GREENHOUSE GAS IMPACT **42**
3.1 Introduction 42
3.2 Standards of Significance 42
3.3 California Emissions Estimator Model™ Employed To Analyze GHG Emissions 42
3.4 Construction and Operational Life-Cycle Analysis Not Required 43
3.5 Construction Emissions 43
3.6 Operational Emissions 46
3.7 Emissions Summary 49
3.8 Greenhouse Gas Emissions Findings and Recommendations 50
4 REFERENCES **61**
5 CERTIFICATION **65**

APPENDICES

APPENDIX 3.1: CALEEMOD ANNUAL CONSTRUCTION EMISSIONS MODEL OUTPUTS
APPENDIX 3.2: CALEEMOD OPERATIONAL (PASSENGER CAR) EMISSIONS MODEL OUTPUTS
APPENDIX 3.3: CALEEMOD OPERATIONAL (TRUCK) EMISSIONS MODEL OUTPUTS
APPENDIX 3.4: CALEEMOD EXISTING DEVELOPMENT OPERATIONAL EMISSIONS MODEL OUTPUTS

LIST OF EXHIBITS

EXHIBIT 1-A: LOCATION MAP 5
EXHIBIT 1-B: SITE PLAN 6
EXHIBIT 2-A: SUMMARY OF PROJECTED GLOBAL WARMING IMPACT, 2070-2099 (AS COMPARED WITH 1961-1990) 14

LIST OF TABLES

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS 1
TABLE 2-1: GREENHOUSE GASES 9
TABLE 2-2: GLOBAL WARMING POTENTIAL AND ATMOSPHERIC LIFETIME OF SELECT GHGS 15
TABLE 2-3: TOP GHG PRODUCING COUNTRIES AND THE EUROPEAN UNION 16
TABLE 3-1: CONSTRUCTION DURATION 44
TABLE 3-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS 45
TABLE 3-3: AMORTIZED ANNUAL CONSTRUCTION EMISSIONS 46
TABLE 3-4: EXISTING GHG EMISSIONS 49
TABLE 3-5: PROJECT GHG EMISSIONS 50
TABLE 3-6: 2008 SCOPING PLAN CONSISTENCY SUMMARY 52
TABLE 3-7: 2017 SCOPING PLAN CONSISTENCY SUMMARY 54

LIST OF ABBREVIATED TERMS

(1)	Reference
AB	Assembly Bill
APA	Administrative Procedure Act
APS	Alternative Planning Organizations
AQIA	Air Quality Impact Analysis
AR5	IPCC's 5th Assessment Report
ARB	California Air Resources Board
BAU	Business As Usual
C_2F_6	Hexafluoroethane
C_2H_6	Ethane
$C_2H_2F_4$	Tetrafluroethane
$C_2H_4F_2$	Ethylidene Fluoride
CAA	Federal Clean Air Act
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGAPS	California LBNL GHG Analysis of Policies Spreadsheet
CALGreen	California Green Building Standards Code
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resource Board
CAP	Climate Action Plan
CAT	Climate Action Team
CBSC	California Building Standards Commission
CEC	California Energy Commission
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CF_4	Tetrafluoromethane
CFC	Chlorofluorocarbons
CFR	Code of Federal Regulations
CH_4	Methane
CHF_3	Carbon Trifluoride
CITY	City of Santa Fe Springs
CO	Carbon Monoxide
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent
COP	Conference of the Parties
CPUC	California Public Utilities Commission

EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
EPS	Emission Performance Standard
EVSE	Electric Vehicle Supply Equipment
FBMSM	Facility-Based Mobile Source Measures
FED	Functional Equivalent Document
GCC	Global Climate Change
GHGA	Greenhouse Gas Analysis
GPD	Gallons Per Day
GPY	Gallons Per Year
GWP	Global Warming Potential
H_2O	Water
HFC	Hydrofluorocarbons
HHDT	Heavy-Heavy-Duty Trucks
HP	Horsepower
IPCC	Intergovernmental Panel on Climate Change
ISO	Independent System Operator
ITE	Institute of Transportation Engineers
LBNL	Lawrence Berkeley National Laboratory
LCA	Life-Cycle Analysis
LCFS	Low Carbon Fuel Standard
LDA	Light-Duty Auto
LDT1/LDT2	Light-Duty Trucks
LEV	Low-Emission Vehicle
LHDT	Light-Heavy-Duty Trucks
MDV	Medium-Duty Vehicles
MHDT	Medium-Heavy-Duty Tucks
MMR	Mandatory Reporting Rule
$MMTCO_2e$	Million Metric Ton of Carbon Dioxide Equivalent
MPG	Miles Per Gallon
MPOs	Metropolitan Planning Organizations
$MTCO_2e$	Metric Ton of Carbon Dioxide Equivalent
MY	Model Year
NHTSA	National Highway Traffic Safety Administration
N_20	Nitrogen Dioxide/Nitrous Oxide
NCHRP	National Cooperative Highway Research Program
NDC	Nationally Determined Contributions
NF_3	Nitrogen Trifluoride

NIOSH	National Institute for Occupational Safety and Health
NO_X	Oxides of Nitrogen
PFC	Perfluorocarbons
PM_{10}	Particulate Matter 10 microns in diameter or less
$PM_{2.5}$	Particulate Matter 2.5 microns in diameter or less
PPM	Parts Per Million
PPT	Parts Per Trillion
Project	Pioneer Boulevard Development
RPS	Renewable Portfolio Standard
RTP	Regional Transportation Plan
SAR	Second Assessment Report
SB	Senate Bill
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCS	Sustainable Communities Strategies
SF_6	Sulfur Hexaflouride
SLPS	Short-Lived Climate Pollutant Strategy
SP	Service Population
TIA	Traffic Impact Analysis
UNFCCC	United Nations' Framework Convention on Climate Change
URBEMIS	Urban Emissions
UTR	Utility Tractors
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
WRI	World Resources Institute
WSA	Water Supply Assessment
ZE/NZE	Zero and Near-Zero Emissions

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Pioneer Boulevard Development Greenhouse Gas Analysis* is summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines (1). Table ES-1 shows the findings of significance for potential greenhouse gas (GHG) impacts under CEQA.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
GHG Impact #1: The Project would not generate direct or indirect GHG emission that would result in a significant impact on the environment.	3.8	*Less Than Significant*	*n/a*
GHG Impact #2: The Project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.	3.8	*Less Than Significant*	*n/a*

ES.2 PROJECT REQUIREMENTS

The Project would be required to comply with regulations imposed by the State of California and the South Coast Air Quality Management District (SCAQMD) aimed at the reduction of air pollutant emissions. Those that are directly and indirectly applicable to the Project and that would assist in the reduction of GHG emissions include:

- Global Warming Solutions Act of 2006 (AB32) (2).
- Regional GHG Emissions Reduction Targets (2)/Sustainable Communities Strategies (SB 375) (3).
- Pavley Fuel Efficiency Standards (AB1493). Establishes fuel efficiency ratings for new vehicles (4).
- Title 24 California Code of Regulations (California Building Code). Establishes energy efficiency requirements for new construction (5).
- Title 20 California Code of Regulations (Appliance Energy Efficiency Standards). Establishes energy efficiency requirements for appliances (6).
- Title 17 California Code of Regulations (Low Carbon Fuel Standard). Requires carbon content of fuel sold in California to be 10% less by 2020 (7).
- California Water Conservation in Landscaping Act of 2006 (AB1881). Requires local agencies to adopt the Department of Water Resources updated Water Efficient Landscape Ordinance or equivalent by January 1, 2010 to ensure efficient landscapes in new development and reduced water waste in existing landscapes (8).

- Statewide Retail Provider Emissions Performance Standards (SB 1368). Requires energy generators to achieve performance standards for GHG emissions (9).
- Renewable Portfolio Standards (SB 1078). Requires electric corporations to increase the amount of energy obtained from eligible renewable energy resources to 20 percent by 2010 and 33 percent by 2020 (10).
- Senate Bill 32 (SB 32). Requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15 (11).

Promulgated regulations that will affect the Project's emissions are accounted for in the Project's GHG calculations provided in this report. In particular, the Pavley Standards, Low Carbon Fuel Standards, and Renewable Portfolio Standards (RPS) will be in effect for the AB 32 target year of 2020, and therefore are accounted for in the Project's emission calculations.

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1 INTRODUCTION

This report presents the results of the greenhouse gas analysis (GHGA) prepared by Urban Crossroads, Inc., for Pioneer Boulevard Development (Project). The purpose of this GHGA is to evaluate Project-related construction and operational emissions and determine the level of GHG impacts as a result of constructing and operating the proposed Project.

1.1 SITE LOCATION

The proposed Pioneer Boulevard Development is located at 9920 Pioneer Boulevard, in the City of Santa Fe Springs, as shown on Exhibit 1-A.

1.2 PROJECT STUDY AREA

The Project site is currently developed with 149,605 square feet (sf) business park and 8,064 sf general office building uses. The Project site is located within a developed and urban area with the City Santa Fe Springs. The surrounding land uses are described below.

- North: Immediately north of the project site are business park uses, designated as Business Park in the General Plan and zoned Limited Manufacturing (ML). A single-family residential neighborhood is to the northwest of the project site, designated as Single Family Residential in the General Plan and zoned Single Family (R-1).
- West: Adjacent to the project site are business park uses, designated as Business Park in the General Plan and zoned Limited Manufacturing (ML). Beyond the business park is a multi-family development designated as Multiple Family Residential and zoned Multiple Family – Planned Development Overlay Zone (R-3-PD).
- South: Immediately south of the project site are business park uses, designated and zoned with the same land uses as the project site: Business Park and Limited Manufacturing (ML). The City of Santa Fe Springs Civic Center is located southwest of the project site with a designation of Public Facilities by the General Plan and zoned a combination of Community Commercial (C-4), Public Facilities (PF), and Limited Manufacturing (ML) each with a Design Overlay zone.
- East: Across from the Southern Pacific railroad tracks are industrial uses, east of the project site. The General Plan designates this area as Industrial. The City zones the area as Heavy Manufacturing (M-2).

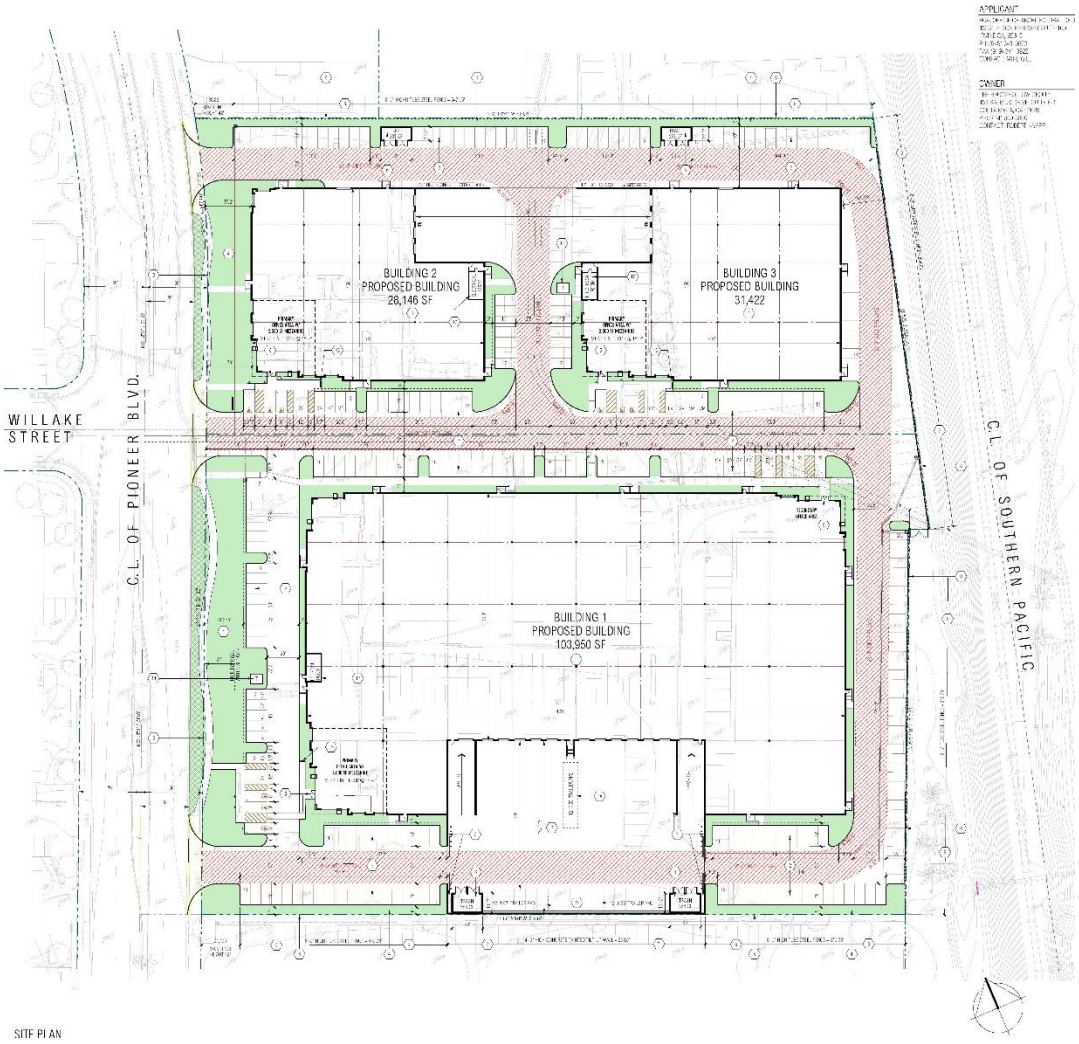
1.3 PROJECT DESCRIPTION

Exhibit 1-B illustrates the preliminary site plan. As indicated on Exhibit 1-B, the Project is proposed to consist 163,518 sf of general light industrial use within 3 buildings. The Project is anticipated to be constructed in a single phase by the year 2021. At the time this GHG analysis was prepared, the future tenants of the proposed Project were unknown. This GHG study is intended to describe emission impacts associated with the expected typical 24-hour, seven days per week operational activities at the Project site.

EXHIBIT 1-A: LOCATION MAP



EXHIBIT 1-B: SITE PLAN



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2 CLIMATE CHANGE SETTING

2.1 INTRODUCTION TO GLOBAL CLIMATE CHANGE

Global Climate Change (GCC) is defined as the change in average meteorological conditions on the earth with respect to temperature, precipitation, and storms. The majority of scientists believe that the climate shift taking place since the Industrial Revolution is occurring at a quicker rate and magnitude than in the past. Scientific evidence suggests that GCC is the result of increased concentrations of GHGs in the earth's atmosphere, including carbon dioxide, methane, nitrous oxide, and fluorinated gases. The majority of scientists believe that this increased rate of climate change is the result of GHGs resulting from human activity and industrialization over the past 200 years.

An individual project like the proposed Project evaluated in this GHGA cannot generate enough GHG emissions to affect a discernible change in global climate. However, the proposed Project may participate in the potential for GCC by its incremental contribution of GHGs combined with the cumulative increase of all other sources of GHGs, which when taken together constitute potential influences on GCC. Because these changes may have serious environmental consequences, Section 3.0 will evaluate the potential for the proposed Project to have a significant effect upon the environment as a result of its potential contribution to the greenhouse effect.

2.2 GLOBAL CLIMATE CHANGE DEFINED

GCC refers to the change in average meteorological conditions on the earth with respect to temperature, wind patterns, precipitation and storms. Global temperatures are regulated by naturally occurring atmospheric gases such as water vapor, CO_2 (carbon dioxide), N_2O (nitrous oxide), CH_4 (methane), hydrofluorocarbons, perfluorocarbons and sulfur hexafluoride. These particular gases are important due to their residence time (duration they stay) in the atmosphere, which ranges from 10 years to more than 100 years. These gases allow solar radiation into the earth's atmosphere, but prevent radioactive heat from escaping, thus warming the earth's atmosphere. GCC can occur naturally as it has in the past with the previous ice ages.

Gases that trap heat in the atmosphere are often referred to as GHGs. GHGs are released into the atmosphere by both natural and anthropogenic (human) activity. Without the natural GHG effect, the earth's average temperature would be approximately 61° Fahrenheit cooler than it is currently. The cumulative accumulation of these gases in the earth's atmosphere is considered to be the cause for the observed increase in the earth's temperature.

2.3 GREENHOUSE GASES

GREENHOUSE GASES AND HEALTH EFFECTS

GHGs trap heat in the atmosphere, creating a GHG effect that results in global warming and climate change. Many gases demonstrate these properties and as discussed in Table 2-1. For the purposes of this analysis, emissions of CO_2, CH_4, and N_2O were evaluated (see Table 3-1 later in

this report) because these gases are the primary contributors to GCC from development projects. Although there are other substances such as fluorinated gases that also contribute to GCC, these fluorinated gases were not evaluated as their sources are not well-defined and do not contain accepted emissions factors or methodology to accurately calculate these gases.

TABLE 2-1: GREENHOUSE GASES

Greenhouse Gases	Description	Sources	Health Effects
Water Vapor (H_2O)	H_20 is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. Changes in its concentration are primarily considered to be a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. A climate feedback is an indirect, or secondary, change, either positive or negative, that occurs within the climate system in response to a forcing mechanism. The feedback loop in which water is involved is critically important to projecting future climate change. As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to 'hold' more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the Earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on and so on. This is referred to as a "positive feedback loop." The extent to which this positive	The main source of water vapor is evaporation from the oceans (approximately 85 percent). Other sources include evaporation from other water bodies, sublimation (change from solid to gas) from sea ice and snow, and transpiration from plant leaves.	There are no known direct health effects related to water vapor at this time. It should be noted however that when some pollutants react with water vapor, the reaction forms a transport mechanism for some of these pollutants to enter the human body through water vapor.

Greenhouse Gases	Description	Sources	Health Effects
	feedback loop will continue is unknown as there are also dynamics that hold the positive feedback loop in check. As an example, when water vapor increases in the atmosphere, more of it will eventually condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the earth's surface and heat it up) (12).		
Carbon Dioxide (CO_2)	CO_2 is an odorless and colorless GHG. Since the industrial revolution began in the mid-1700s, the sort of human activity that increases GHG emissions has increased dramatically in scale and distribution. Data from the past 50 years suggests a corollary increase in levels and concentrations. As an example, prior to the industrial revolution, CO_2 concentrations were fairly stable at 280 parts per million (ppm). Today, they are around 370 ppm, an increase of more than 30 percent. Left unchecked, the concentration of carbon dioxide in the atmosphere is projected to increase to a minimum of 540 ppm by 2100 as a direct result of anthropogenic sources (13).	Carbon dioxide is emitted from natural and manmade sources. Natural sources include: the decomposition of dead organic matter; respiration of bacteria, plants, animals and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources include: the burning of coal, oil, natural gas, and wood. Carbon dioxide is naturally removed from the air by photosynthesis, dissolution into ocean water, transfer to soils and ice caps, and chemical weathering of carbonate rocks (14).	Outdoor levels of carbon dioxide are not high enough to result in negative health effects. According to the National Institute for Occupational Safety and Health (NIOSH) high concentrations of carbon dioxide can result in health effects such as: headaches, dizziness, restlessness, difficulty breathing, sweating, increased heart rate, increased cardiac output, increased blood pressure, coma, asphyxia, and/or convulsions. It should be noted that current concentrations of carbon dioxide in the earth's atmosphere are estimated to be approximately 370 ppm, the actual reference exposure level (level at which adverse health effects typically occur) is at exposure levels of 5,000 ppm averaged over 10 hours in a 40-hour workweek and short-term reference exposure levels of 30,000

Greenhouse Gases	Description	Sources	Health Effects
			ppm averaged over a 15 minute period (15).
Methane (CH_4)	CH_4 is an extremely effective absorber of radiation, although its atmospheric concentration is less than carbon dioxide and its lifetime in the atmosphere is brief (10-12 years), compared to other GHGs.	Methane has both natural and anthropogenic sources. It is released as part of the biological processes in low oxygen environments, such as in swamplands or in rice production (at the roots of the plants). Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of methane. Other anthropocentric sources include fossil-fuel combustion and biomass burning (16).	Methane is extremely reactive with oxidizers, halogens, and other halogen-containing compounds. Exposure to high levels of methane can cause asphyxiation, loss of consciousness, headache and dizziness, nausea and vomiting, weakness, loss of coordination, and an increased breathing rate.
Nitrous Oxide (N_2O)	N_2O, also known as laughing gas, is a colorless GHG. Concentrations of nitrous oxide also began to rise at the beginning of the industrial revolution. In 1998, the global concentration was 314 parts per billion (ppb).	Nitrous oxide is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions)	Nitrous oxide can cause dizziness, euphoria, and sometimes slight hallucinations. In small doses, it is considered harmless. However, in some cases, heavy and extended use can cause Olney's Lesions (brain damage) (17).

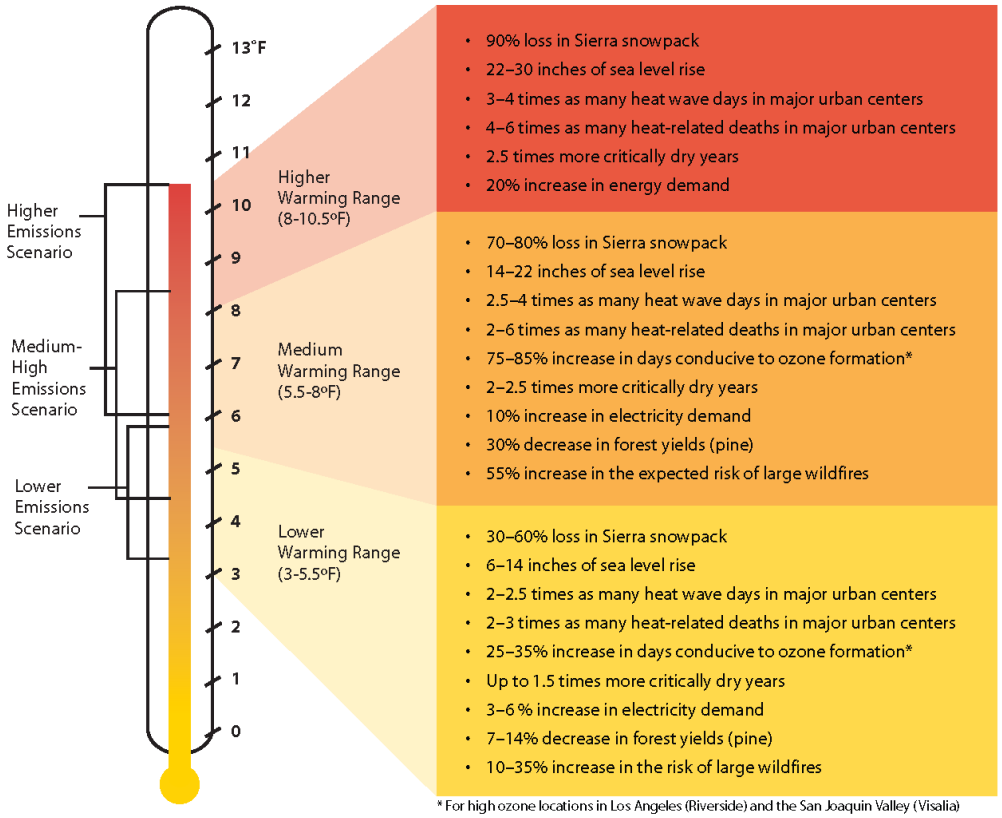
Greenhouse Gases	Description	Sources	Health Effects
		also contribute to its atmospheric load. It is used as an aerosol spray propellant, i.e., in whipped cream bottles. It is also used in potato chip bags to keep chips fresh. It is used in rocket engines and in race cars. Nitrous oxide can be transported into the stratosphere, be deposited on the earth's surface, and be converted to other compounds by chemical reaction (17).	
Chlorofluorocarbons (CFCs)	CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane (C_2H_6) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble and chemically unreactive in the troposphere (the level of air at the earth's surface).	CFCs have no natural source but were first synthesized in 1928. They were used for refrigerants, aerosol propellants and cleaning solvents. Due to the discovery that they are able to destroy stratospheric ozone, a global effort to halt their production was undertaken and was extremely successful, so much so that levels of the major CFCs are now remaining steady or declining. However, their long atmospheric lifetimes mean that some of the CFCs will remain in the atmosphere for over 100 years (18).	In confined indoor locations, working with CFC-113 or other CFCs is thought to result in death by cardiac arrhythmia (heart frequency too high or too low) or asphyxiation.

Greenhouse Gases	Description	Sources	Health Effects
Hydrofluorocarbons (HFCs)	HFCs are synthetic, man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential (GWP). The HFCs with the largest measured atmospheric abundances are (in order), HFC-23 (CHF_3), HFC-134a (CH_2FCF), and HFC-152a (CH_3CF_2). Prior to 1990, the only significant emissions were of HFC-23. HFC-134a emissions are increasing due to its use as a refrigerant.	HFCs are manmade for applications such as automobile air conditioners and refrigerants.	No health effects are known to result from exposure to HFCs.
Perfluorocarbons (PFCs)	PFCs have stable molecular structures and do not break down through chemical processes in the lower atmosphere. High-energy ultraviolet rays, which occur about 60 kilometers above earth's surface, are able to destroy the compounds. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF_4) and hexafluoroethane (C_2F_6). The EPA estimates that concentrations of CF_4 in the atmosphere are over 70 parts per trillion (ppt).	The two main sources of PFCs are primary aluminum production and semiconductor manufacture.	No health effects are known to result from exposure to PFCs.
Sulfur Hexafluoride (SF_6)	Sulfur hexafluoride (SF_6) is an inorganic, odorless, colorless, nontoxic, nonflammable gas. It also has the highest GWP of any gas evaluated (23,900) (19). The EPA indicates that concentrations in the 1990s were about 4 ppt.	Sulfur hexafluoride is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.	In high concentrations in confined areas, the gas presents the hazard of suffocation because it displaces the oxygen needed for breathing.

Greenhouse Gases	Description	Sources	Health Effects
Nitrogen Trifluoride (NF_3)	NF_3 is a colorless gas with a distinctly moldy odor. The World Resources Institute (WRI) indicates that NF_3 has a 100-year GWP of 17,200 (20).	NF_3 is used in industrial processes and is produced in the manufacturing of semiconductors, LCD (Liquid Crystal Display) panels, types of solar panels, and chemical lasers.	Long-term or repeated exposure may affect the liver and kidneys and may cause fluorosis (21).

The potential health effects related directly to the emissions of CO_2, CH_4, and N_2O as they relate to development projects such as the proposed Project are still being debated in the scientific community. Their cumulative effects to GCC have the potential to cause adverse effects to human health. Increases in Earth's ambient temperatures would result in more intense heat waves, causing more heat-related deaths. Scientists also purport that higher ambient temperatures would increase disease survival rates and result in more widespread disease. Climate change will likely cause shifts in weather patterns, potentially resulting in devastating droughts and food shortages in some areas (22). Exhibit 2-A presents the potential impacts of global warming (23).

EXHIBIT 2-A: SUMMARY OF PROJECTED GLOBAL WARMING IMPACT, 2070-2099 (AS COMPARED WITH 1961-1990)



Source: Barbara H. Allen-Diaz. "Climate change affects us all." *University of California, Agriculture and Natural Resources*, 2009.

2.4 GLOBAL WARMING POTENTIAL

GHGs have varying GWP values. GWP of a GHG indicates the amount of warming a gas causes over a given period of time and represents the potential of a gas to trap heat in the atmosphere. Carbon dioxide is utilized as the reference gas for GWP, and thus has a GWP of 1. Carbon dioxide equivalent (CO_2e) is a term used for describing the difference GHGs in a common unit. CO_2e signifies the amount of CO_2 which would have the equivalent GWP.

The atmospheric lifetime and GWP of selected GHGs are summarized at Table 2-2. As shown in the table below, GWP for the Second Assessment Report, the Intergovernmental Panel on Climate Change (IPCC)'s scientific and socio-economic assessment on climate change, range from 1 for carbon dioxide to 23,900 for sulfur hexafluoride and GWP for the IPCC's 5th Assessment Report range from 1 for CO_2 to 23,500 for SF_6 (24).

TABLE 2-2: GLOBAL WARMING POTENTIAL AND ATMOSPHERIC LIFETIME OF SELECT GHGS

Gas	Atmospheric Lifetime (years)	Global Warming Potential (100-year time horizon)	
		Second Assessment Report	5th Assessment Report
CO_2	See*	1	1
CH_4	12 .4	21	28
N_2O	121	310	265
HFC-23	222	11,700	12,400
HFC-134a	13.4	1,300	1,300
HFC-152a	1.5	140	138
SF_6	3,200	23,900	23,500

*As per Appendix 8.A. of IPCC's 5th Assessment Report, no single lifetime can be given.
Source: Table 2.14 of the IPCC Fourth Assessment Report, 2007

2.5 GREENHOUSE GAS EMISSIONS INVENTORIES

Global

Worldwide anthropogenic (human) GHG emissions are tracked by the IPCC for industrialized nations (referred to as Annex I) and developing nations (referred to as Non-Annex I). Human GHG emissions data for Annex I nations are available through 2017. Based on the latest available data, the sum of these emissions totaled approximately 29,216,501 Gg CO_2e[1] (25) (26) as summarized on Table 2-3.

[1] The global emissions are the sum of Annex I and non-Annex I countries, without counting Land-Use, Land-Use Change and Forestry (LULUCF). For countries without 2017 data, the UNFCCC data for the most recent year were used. United Nations Framework Convention on Climate Change, "Annex I Parties – GHG total without LULUCF," The most recent GHG emissions for China and India are from 2014.

United States

As noted in Table 2-3, the United States, as a single country, was the number two producer of GHG emissions in 2017.

TABLE 2-3: TOP GHG PRODUCING COUNTRIES AND THE EUROPEAN UNION [2]

Emitting Countries	GHG Emissions (Gg CO_2e)
China	11,911,710
United States	6,456,718
European Union (28-member countries)	4,323,163
India	3,079,810
Russian Federation	2,155,470
Japan	1,289,630
Total	**29,216,501**

Note: Gg – gigagram

State of California

California has significantly slowed the rate of growth of GHG emissions due to the implementation of energy efficiency programs as well as adoption of strict emission controls, but is still a substantial contributor to the U.S. emissions inventory total (27). The California Air Resource Board (CARB) compiles GHG inventories for the State of California. Based upon the 2018 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2016 GHG emissions period, California emitted an average 429.4 million metric tons of CO_2e ($MMTCO_2e$) per year including emissions resulting from imported electrical power in 2015 (28).

2.6 EFFECTS OF CLIMATE CHANGE IN CALIFORNIA

Public Health

Higher temperatures may increase the frequency, duration, and intensity of conditions conducive to air pollution formation. For example, days with weather conducive to ozone formation could increase from 25 to 35 percent under the lower warming range to 75 to 85 percent under the medium warming range. In addition, if global background ozone levels increase as predicted in some scenarios, it may become impossible to meet local air quality standards. Air quality could be further compromised by increases in wildfires, which emit fine particulate matter that can travel long distances, depending on wind conditions. The Climate Scenarios report indicates that large wildfires could become up to 55 percent more frequent if GHG emissions are not significantly reduced.

In addition, under the higher warming range scenario, there could be up to 100 more days per year with temperatures above 90°F in Los Angeles and 95°F in Sacramento by 2100. This is a large

[2] Used http://unfccc.int data for Annex I countries. Consulted the CAIT Climate Data Explorer in https://www.climatewatchdata.org site to reference Non-Annex I countries of China and India.

increase over historical patterns and approximately twice the increase projected if temperatures remain within or below the lower warming range. Rising temperatures could increase the risk of death from dehydration, heat stroke/exhaustion, heart attack, stroke, and respiratory distress caused by extreme heat.

Water Resources

A vast network of man-made reservoirs and aqueducts captures and transports water throughout the state from northern California rivers and the Colorado River. The current distribution system relies on Sierra Nevada snowpack to supply water during the dry spring and summer months. Rising temperatures, potentially compounded by decreases in precipitation, could severely reduce spring snowpack, increasing the risk of summer water shortages.

If temperatures continue to increase, more precipitation could fall as rain instead of snow, and the snow that does fall could melt earlier, reducing the Sierra Nevada spring snowpack by as much as 70 to 90 percent. Under the lower warming range scenario, snowpack losses could be only half as large as those possible if temperatures were to rise to the higher warming range. How much snowpack could be lost depends in part on future precipitation patterns, the projections for which remain uncertain. However, even under the wetter climate projections, the loss of snowpack could pose challenges to water managers and hamper hydropower generation. It could also adversely affect winter tourism. Under the lower warming range, the ski season at lower elevations could be reduced by as much as a month. If temperatures reach the higher warming range and precipitation declines, there might be many years with insufficient snow for skiing and snowboarding.

The State's water supplies are also at risk from rising sea levels. An influx of saltwater could degrade California's estuaries, wetlands, and groundwater aquifers. Saltwater intrusion caused by rising sea levels is a major threat to the quality and reliability of water within the southern edge of the Sacramento/San Joaquin River Delta – a major fresh water supply.

Agriculture

Increased temperatures could cause widespread changes to the agriculture industry reducing the quantity and quality of agricultural products statewide. First, California farmers could possibly lose as much as 25 percent of the water supply needed. Although higher CO_2 levels can stimulate plant production and increase plant water-use efficiency, California's farmers could face greater water demand for crops and a less reliable water supply as temperatures rise. Crop growth and development could change, as could the intensity and frequency of pest and disease outbreaks. Rising temperatures could aggravate ozone pollution, which makes plants more susceptible to disease and pests and interferes with plant growth.

Plant growth tends to be slow at low temperatures, increasing with rising temperatures up to a threshold. However, faster growth can result in less-than-optimal development for many crops, so rising temperatures could worsen the quantity and quality of yield for a number of California's agricultural products. Products likely to be most affected include wine grapes, fruits and nuts.

In addition, continued GCC could shift the ranges of existing invasive plants and weeds and alter competition patterns with native plants. Range expansion could occur in many species while range contractions may be less likely in rapidly evolving species with significant populations already established. Should range contractions occur, new or different weed species could fill the emerging gaps. Continued GCC could alter the abundance and types of many pests, lengthen pests' breeding season, and increase pathogen growth rates.

Forests and Landscapes

GCC has the potential to intensify the current threat to forests and landscapes by increasing the risk of wildfire and altering the distribution and character of natural vegetation. If temperatures rise into the medium warming range, the risk of large wildfires in California could increase by as much as 55 percent, which is almost twice the increase expected if temperatures stay in the lower warming range. However, since wildfire risk is determined by a combination of factors, including precipitation, winds, temperature, and landscape and vegetation conditions, future risks will not be uniform throughout the state. In contrast, wildfires in northern California could increase by up to 90 percent due to decreased precipitation.

Moreover, continued GCC has the potential to alter natural ecosystems and biological diversity within the state. For example, alpine and subalpine ecosystems could decline by as much as 60 to 80 percent by the end of the century as a result of increasing temperatures. The productivity of the state's forests has the potential to decrease as a result of GCC.

Rising Sea Levels

Rising sea levels, more intense coastal storms, and warmer water temperatures could increasingly threaten the state's coastal regions. Under the higher warming range scenario, sea level is anticipated to rise 22 to 35 inches by 2100. Elevations of this magnitude would inundate low-lying coastal areas with saltwater, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats. Under the lower warming range scenario, sea level could rise 12-14 inches.

2.7 REGULATORY SETTING

INTERNATIONAL

Climate change is a global issue involving GHG emissions from all around the world; therefore, countries such as the ones discussed below have made an effort to reduce GHGs.

Intergovernmental Panel on Climate Change. In 1988, the United Nations and the World Meteorological Organization established the IPCC to assess the scientific, technical and socioeconomic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts, and options for adaptation and mitigation.

United Nation's Framework Convention on Climate Change ("Convention"). On March 21, 1994, the U.S. joined a number of countries around the world in signing the Convention. Under the Convention, governments gather and share information on GHG emissions, national policies, and best practices; launch national strategies for addressing GHG emissions and adapting to

expected impacts, including the provision of financial and technological support to developing countries; and cooperate in preparing for adaptation to the impacts of climate change.

International Climate Change Treaties. The Kyoto Protocol is an international agreement linked to the Convention. The major feature of the Kyoto Protocol is that it sets binding targets for 37 industrialized countries and the European community for reducing GHG emissions at an average of five percent against 1990 levels over the five-year period 2008–2012. The Convention (as discussed above) encouraged industrialized countries to stabilize emissions; however, the Protocol commits them to do so. Developed countries have contributed more emissions over the last 150 years; therefore, the Protocol places a heavier burden on developed nations under the principle of "common but differentiated responsibilities."

In 2001, President George W. Bush indicated that he would not submit the treaty to the U.S. Senate for ratification, which effectively ended American involvement in the Kyoto Protocol. In December 2009, international leaders met in Copenhagen to address the future of international climate change commitments post-Kyoto. No binding agreement was reached in Copenhagen; however, the Committee identified the long-term goal of limiting the maximum global average temperature increase to no more than 2° Celsius above pre-industrial levels, subject to a review in 2015. The UN Climate Change Committee held additional meetings in Durban, South Africa in November 2011; Doha, Qatar in November 2012; and Warsaw, Poland in November 2013. The meetings are gradually gaining consensus among participants on individual climate change issues.

On September 23, 2014 more than 100 Heads of State and Government and leaders from the private sector and civil society met at the Climate Summit in New York hosted by the United Nations. At the Summit, heads of government, business and civil society announced actions in areas that would have the greatest impact on reducing emissions, including climate finance, energy, transport, industry, agriculture, cities, forests, and building resilience.

Parties to the U.N. Framework Convention on Climate Change (UNFCCC) reached a landmark agreement on December 12, 2015 in Paris, charting a fundamentally new course in the two-decade-old global climate effort. Culminating a four-year negotiating round, the new treaty ends the strict differentiation between developed and developing countries that characterized earlier efforts, replacing it with a common framework that commits all countries to put forward their best efforts and to strengthen them in the years ahead. This includes, for the first time, requirements that all parties report regularly on their emissions and implementation efforts and undergo international review.

The agreement and a companion decision by parties were the key outcomes of the conference, known as the 21st session of the UNFCCC Conference of the Parties (COP) 21. Together, the Paris Agreement and the accompanying COP decision:

- Reaffirm the goal of limiting global temperature increase well below 2 degrees Celsius, while urging efforts to limit the increase to 1.5 degrees;
- Establish binding commitments by all parties to make "nationally determined contributions" (NDCs), and to pursue domestic measures aimed at achieving them;

- Commit all countries to report regularly on their emissions and "progress made in implementing and achieving" their NDCs, and to undergo international review;
- Commit all countries to submit new NDCs every five years, with the clear expectation that they will "represent a progression" beyond previous ones;
- Reaffirm the binding obligations of developed countries under the UNFCCC to support the efforts of developing countries, while for the first time encouraging voluntary contributions by developing countries too;
- Extend the current goal of mobilizing $100 billion a year in support by 2020 through 2025, with a new, higher goal to be set for the period after 2025;
- Extend a mechanism to address "loss and damage" resulting from climate change, which explicitly will not "involve or provide a basis for any liability or compensation;"
- Require parties engaging in international emissions trading to avoid "double counting;" and
- Call for a new mechanism, similar to the Clean Development Mechanism under the Kyoto Protocol, enabling emission reductions in one country to be counted toward another country's NDC (C2ES 2015a) (29).

On June 2, 2017 President Donald Trump announced his intention to withdraw from the Paris Agreement. It should be noted that under the terms of the agreement, the United Sates cannot formally announce its resignation until November 4, 2019. Subsequently, withdrawal would be effective one year after notification in 2020.

NATIONAL

Prior to the last decade, there have been no concrete federal regulations of GHGs or major planning for climate change adaptation. The following are actions regarding the federal government, GHGs, and fuel efficiency.

GHG Endangerment. In *Massachusetts v. Environmental Protection Agency* 549 U.S. 497 (2007), decided on April 2, 2007, the Supreme Court found that four GHGs, including carbon dioxide, are air pollutants subject to regulation under Section 202(a)(1) of the Clean Air Act (CAA). The Court held that the EPA Administrator must determine whether emissions of GHGs from new motor vehicles cause or contribute to air pollution, which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. On December 7, 2009, the EPA Administrator signed two distinct findings regarding GHGs under section 202(a) of the CAA:

- Endangerment Finding: The Administrator finds that the current and projected concentrations of the six key well-mixed GHGs—carbon dioxide, methane, nitrous oxide, HFCs, PFCs, and sulfur hexafluoride—in the atmosphere threaten the public health and welfare of current and future generations.
- Cause or Contribute Finding: The Administrator finds that the combined emissions of these well-mixed GHGs from new motor vehicles and new motor vehicle engines contribute to the GHG pollution, which threatens public health and welfare.

These findings do not impose requirements on industry or other entities. However, this was a prerequisite for implementing GHG emissions standards for vehicles, as discussed in the section "Clean Vehicles" below. After a lengthy legal challenge, the U.S. Supreme Court declined to review an Appeals Court ruling that upheld the EPA Administrator's findings (30).

Clean Vehicles. Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light duty trucks. The law has become more stringent over time. On May 19, 2009, President Obama put in motion a new national policy to increase fuel economy for all new cars and trucks sold in the U.S. On April 1, 2010, the EPA and the Department of Transportation's National Highway Traffic Safety Administration (NHTSA) announced a joint final rule establishing a national program that would reduce GHG emissions and improve fuel economy for new cars and trucks sold in the U.S.

The first phase of the national program applies to passenger cars, light-duty trucks, and medium-duty (MD) passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of carbon dioxide per mile, equivalent to 35.5 miles per gallon (mpg) if the automobile industry were to meet this carbon dioxide level solely through fuel economy improvements. Together, these standards would cut carbon dioxide emissions by an estimated 960 million metric tons and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012–2016). The EPA and the NHTSA issued final rules on a second-phase joint rulemaking establishing national standards for light-duty vehicles for model years 2017 through 2025 in August 2012 (EPA 2012c). The new standards for model years 2017 through 2025 apply to passenger cars, light-duty trucks, and MD passenger vehicles. The final standards are projected to result in an average industry fleetwide level of 163 grams/mile of carbon dioxide (CO_2) in model year 2025, which is equivalent to 54.5 mpg if achieved exclusively through fuel economy improvements.

The EPA and the U.S. Department of Transportation issued final rules for the first national standards to reduce GHG emissions and improve fuel efficiency of heavy-duty (HD) trucks and buses on September 15, 2011, effective November 14, 2011. For combination tractors, the agencies are proposing engine and vehicle standards that begin in the 2014 model year and achieve up to a 20 percent reduction in carbon dioxide emissions and fuel consumption by the 2018 model year. For HD pickup trucks and vans, the agencies are proposing separate gasoline and diesel truck standards, which phase in starting in the 2014 model year and achieve up to a 10-percent reduction for gasoline vehicles and a 15 percent reduction for diesel vehicles by the 2018 model year (12 and 17 percent respectively if accounting for air conditioning leakage). Lastly, for vocational vehicles, the engine and vehicle standards would achieve up to a 10 percent reduction in fuel consumption and carbon dioxide emissions from the 2014 to 2018 model years.

On April 2, 2018, the EPA signed the Mid-term Evaluation Final Determination, which finds that the model year 2022-2025 GHG standards are not appropriate and should be revised (31). This Final Determination serves to initiate a notice to further consider appropriate standards for model year 2022-2025 light-duty vehicles. On August 24, 2018, the EPA and NHTSA published a proposal to freeze the model year 2020 standards through model year 2026 and to revoke California's waiver under the CAA to establish more stringent standards (32).

Mandatory Reporting of GHGs. The Consolidated Appropriations Act of 2008, passed in December 2007, requires the establishment of mandatory GHG reporting requirements. On September 22, 2009, the EPA issued the Final Mandatory Reporting of GHGs Rule, which became effective January 1, 2010. The rule requires reporting of GHG emissions from large sources and suppliers in the U.S. and is intended to collect accurate and timely emissions data to inform future policy decisions. Under the rule, suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions are required to submit annual reports to the EPA.

New Source Review. The EPA issued a final rule on May 13, 2010, that establishes thresholds for GHGs that define when permits under the New Source Review Prevention of Significant Deterioration and Title V Operating Permit programs are required for new and existing industrial facilities. This final rule "tailors" the requirements of these CAA permitting programs to limit which facilities will be required to obtain Prevention of Significant Deterioration and Title V permits. In the preamble to the revisions to the Federal Code of Regulations, the EPA states:

> *This rulemaking is necessary because without it the Prevention of Significant Deterioration and Title V requirements would apply, as of January 2, 2011, at the 100 or 250 tons per year levels provided under the Clean Air Act, greatly increasing the number of required permits, imposing undue costs on small sources, overwhelming the resources of permitting authorities, and severely impairing the functioning of the programs. EPA is relieving these resource burdens by phasing in the applicability of these programs to GHG sources, starting with the largest GHG emitters. This rule establishes two initial steps of the phase-in. The rule also commits the agency to take certain actions on future steps addressing smaller sources but excludes certain smaller sources from Prevention of Significant Deterioration and Title V permitting for GHG emissions until at least April 30, 2016.*

The EPA estimates that facilities responsible for nearly 70 percent of the national GHG emissions from stationary sources will be subject to permitting requirements under this rule. This includes the nation's largest GHG emitters—power plants, refineries, and cement production facilities.

Standards of Performance for GHG Emissions for New Stationary Sources: Electric Utility Generating Units. As required by a settlement agreement, the EPA proposed new performance standards for emissions of carbon dioxide for new, affected, fossil fuel-fired electric utility generating units on March 27, 2012. New sources greater than 25 megawatts would be required to meet an output-based standard of 1,000 pounds of carbon dioxide per megawatt-hour, based on the performance of widely used natural gas combined cycle technology. It should be noted that on February 9, 2016 the U.S. Supreme Court issued a stay of this regulation pending litigation. Additionally, the current EPA Administrator has also signed a measure to repeal the Clean Power Plan, including the CO_2 standards.

Cap-and-Trade. Cap-and-trade refers to a policy tool where emissions are limited to a certain amount and can be traded or provides flexibility on how the emitter can comply. Successful examples in the U.S. include the Acid Rain Program and the Nitrous Oxide (NO_X) Budget Trading Program and Clean Air Interstate Rule in the northeast. There is no federal GHG cap-and-trade

program currently; however, some states have joined to create initiatives to provide a mechanism for cap-and-trade.

The Regional GHG Initiative is an effort to reduce GHGs among the states of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont. Each state caps carbon dioxide emissions from power plants, auctions carbon dioxide emission allowances, and invests the proceeds in strategic energy programs that further reduce emissions, save consumers money, create jobs, and build a clean energy economy. The Initiative began in 2008.

The Western Climate Initiative partner jurisdictions have developed a comprehensive initiative to reduce regional GHG emissions to 15 percent below 2005 levels by 2020. The partners were originally California, British Columbia, Manitoba, Ontario, and Quebec. However, Manitoba and Ontario are not currently participating. California linked with Quebec's cap-and-trade system January 1, 2014, and joint offset auctions took place in 2015 (C2ES 2015).

SmartWay Program. The SmartWay Program is a public-private initiative between the EPA, large and small trucking companies, rail carriers, logistics companies, commercial manufacturers, retailers, and other federal and state agencies. Its purpose is to improve fuel efficiency and the environmental performance (reduction of both GHG emissions and air pollution) of the goods movement supply chains. SmartWay is comprised of four components (EPA 2014):

1. SmartWay Transport Partnership: A partnership in which freight carriers and shippers commit to benchmark operations, track fuel consumption, and improve performance annually.
2. SmartWay Technology Program: A testing, verification, and designation program to help freight companies identify equipment, technologies, and strategies that save fuel and lower emissions.
3. SmartWay Vehicles: A program that ranks light-duty cars and small trucks and identifies superior environmental performers with the SmartWay logo.
4. SmartWay International Interests: Guidance and resources for countries seeking to develop freight sustainability programs modeled after SmartWay.

SmartWay effectively refers to requirements geared towards reducing fuel consumption. Most large trucking fleets driving newer vehicles are compliant with SmartWay design requirements. Moreover, over time, all HD trucks will have to comply with the CARB GHG Regulation that is designed with the SmartWay Program in mind, to reduce GHG emissions by making them more fuel-efficient. For instance, in 2015, 53 foot or longer dry vans or refrigerated trailers equipped with a combination of SmartWay-verified low-rolling resistance tires and SmartWay-verified aerodynamic devices would obtain a total of 10 percent or more fuel savings over traditional trailers.

Through the SmartWay Technology Program, the EPA has evaluated the fuel saving benefits of various devices through grants, cooperative agreements, emissions and fuel economy testing, demonstration projects and technical literature review. As a result, the EPA has determined the following types of technologies provide fuel saving and/or emission reducing benefits when used properly in their designed applications, and has verified certain products:

- Idle reduction technologies – less idling of the engine when it is not needed would reduce fuel consumption.
- Aerodynamic technologies minimize drag and improve airflow over the entire tractor-trailer vehicle. Aerodynamic technologies include gap fairings that reduce turbulence between the tractor and trailer, side skirts that minimize wind under the trailer, and rear fairings that reduce turbulence and pressure drop at the rear of the trailer.
- Low rolling resistance tires can roll longer without slowing down, thereby reducing the amount of fuel used. Rolling resistance (or rolling friction or rolling drag) is the force resisting the motion when a tire rolls on a surface. The wheel will eventually slow down because of this resistance.
- Retrofit technologies include things such as diesel particulate filters, emissions upgrades (to a higher tier), etc., which would reduce emissions.
- Federal excise tax exemptions.

CALIFORNIA

Legislative Actions to Reduce GHGs

The State of California legislature has enacted a series of bills that constitute the most aggressive program to reduce GHGs of any state in the nation. Some legislation such as the landmark AB 32 was specifically enacted to address GHG emissions. Other legislation such as Title 24 and Title 20 energy standards were originally adopted for other purposes such as energy and water conservation, but also provide GHG reductions. This section describes the major provisions of the legislation.

AB 32. The California State Legislature enacted AB 32, which requires that GHGs emitted in California be reduced to 1990 levels by the year 2020. "GHGs" as defined under AB 32 include carbon dioxide, methane, N_2O, HFCs, PFCs, and sulfur hexafluoride. Since AB 32 was enacted, a seventh chemical, nitrogen trifluoride, has also been added to the list of GHGs. The CARB is the state agency charged with monitoring and regulating sources of GHGs. AB 32 states the following:

> *Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems.*

CARB approved the 1990 GHG emissions level of 427 $MMTCO_2e$ on December 6, 2007 (CARB 2007). Therefore, emissions generated in California in 2020 are required to be equal to or less than 427 $MMTCO_2e$. Emissions in 2020 in a "business as usual" (BAU) scenario were estimated to be 596 $MMTCO_2e$, which do not account for reductions from AB 32 regulations (CARB 2008). At that level, a 28.4 percent reduction was required to achieve the 427 $MMTCO_2e$ 1990 inventory. In October 2010, CARB prepared an updated 2020 forecast to account for the recession and

slower forecasted growth. The forecasted inventory without the benefits of adopted regulation is now estimated at 545 $MMTCO_2e$. Therefore, under the updated forecast, a 21.7 percent reduction from BAU is required to achieve 1990 levels (CARB 2010).

Progress in Achieving AB 32 Targets and Remaining Reductions Required

The State has made steady progress in implementing AB 32 and achieving targets included in Executive Order S-3-05. The progress is shown in updated emission inventories prepared by CARB for 2000 through 2012 (CARB 2014a). The State has achieved the Executive Order S-3-05 target for 2010 of reducing GHG emissions to 2000 levels. As shown below, the 2010 emission inventory achieved this target.

- 1990: 427 $MMTCO_2e$ (AB 32 2020 target)
- 2000: 463 $MMTCO_2e$ (an average 8 percent reduction needed to achieve 1990 base)
- 2010: 450 $MMTCO_2e$ (an average 5 percent reduction needed to achieve 1990 base)

CARB has also made substantial progress in achieving its goal of achieving 1990 emissions levels by 2020. As described earlier in this section, CARB revised the 2020 BAU inventory forecast to account for new lower growth projections, which resulted in a new lower reduction from BAU to achieve the 1990 base. The previous reduction from 2020 BAU needed to achieve 1990 levels was 28.4 percent and the latest reduction from 2020 BAU is 21.7 percent.

- 2020: 545 $MMTCO_2e$ BAU (an average 21.7 percent reduction from BAU needed to achieve 1990 base)

CARB Scoping Plan. CARB's Climate Change Scoping Plan ("Scoping Plan") contains measures designed to reduce the State's emissions to 1990 levels by the year 2020 to comply with AB 32 (CARB 2008). The Scoping Plan identifies recommended measures for multiple GHG emission sectors and the associated emission reductions needed to achieve the year 2020 emissions target—each sector has a different emission reduction target. Most of the measures target the transportation and electricity sectors. As stated in the Scoping Plan, the key elements of the strategy for achieving the 2020 GHG target include:

- Expanding and strengthening existing energy efficiency programs as well as building and appliance standards;
- Achieving a statewide renewables energy mix of 33 percent;
- Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system;
- Establishing targets for transportation related GHG emissions for regions throughout California and pursuing policies and incentives to achieve those targets;
- Adopting and implementing measures pursuant to existing State laws and policies, including California's clean car standards, goods movement measures, and the Low Carbon Fuel Standard (LCFS); and
- Creating targeted fees, including a public goods charge on water use, fees on high GWP gases, and a fee to fund the administrative costs of the State's long-term commitment to AB 32 implementation.

The CARB approved the First Update to the Scoping Plan ("Update") on May 22, 2014. The Update identifies the next steps for California's climate change strategy. The Update shows how California continues on its path to meet the near-term 2020 GHG limit, but also sets a path toward long-term, deep GHG emission reductions. The report establishes a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050. The Update identifies progress made to meet the near-term objectives of AB 32 and defines California's climate change priorities and activities for the next several years. The Update does not set new targets for the State but describes a path that would achieve the long term 2050 goal of Executive Order S-05-03 for emissions to decline to 80 percent below 1990 levels by 2050 (CARB 2014).

Forecasting the amount of emissions that would occur in 2020 if no actions are taken was necessary to assess the amount of reductions California must achieve to return to the 1990 emissions level by 2020 as required by AB 32. The no-action scenario is known as "business-as-usual" or BAU. The CARB originally defined the BAU scenario as emissions in the absence of any GHG emission reduction measures discussed in the Scoping Plan.

As part of CEQA compliance for the Scoping Plan, CARB prepared a Supplemental Functional Equivalent Document (FED) in 2011. The FED included an updated 2020 BAU emissions inventory projection based on current economic forecasts (i.e., as influenced by the economic downturn) and emission reduction measures already in place, replacing its prior 2020 BAU emissions inventory. CARB staff derived the updated emissions estimates by projecting emissions growth, by sector, from the state's average emissions from 2006–2008. The new BAU estimate includes emission reductions for the million-solar-roofs program, the AB 1493 (Pavley I) motor vehicle GHG emission standards, and the LCFS. In addition, CARB factored into the 2020 BAU inventory emissions reductions associated with 33 percent Renewables Portfolio Standard (RPS) for electricity generation. The updated BAU estimate of 507 $MMTCO_2e$ by 2020 requires a reduction of 80 $MMTCO_2e$, or a 16 percent reduction below the estimated BAU levels to return to 1990 levels (i.e., 427 $MMTCO_2e$) by 2020.

In order to provide a BAU reduction that is consistent with the original definition in the Scoping Plan and with threshold definitions used in thresholds adopted by lead agencies for CEQA purposes and many climate action plans, the updated inventory without regulations was also included in the Supplemental FED. The CARB 2020 BAU projection for GHG emissions in California was originally estimated to be 596 $MMTCO_2e$. The updated CARB 2020 BAU projection in the Supplemental FED is 545 $MMTCO_2e$. Considering the updated BAU estimate of 545 $MMTCO_2e$ by 2020, CARB estimates a 21.7 percent reduction below the estimated statewide BAU levels is necessary to return to 1990 emission levels (i.e., 427 $MMTCO_2e$) by 2020, instead of the approximate 28.4 percent BAU reduction previously reported under the original Climate Change Scoping Plan (2008).

2017 Climate Change Scoping Plan Update

In November 2017, CARB released the final 2017 Scoping Plan Update, which identifies the State's post-2020 reduction strategy. The 2017 Scoping Plan Update reflects the 2030 target of a 40 percent reduction below 1990 levels, set by Executive Order B-30-15 and codified by Senate Bill 32 (SB 32). Key programs that the proposed Second Update builds upon include the Cap-and-Trade Regulation, the LCFS, and much cleaner cars, trucks and freight movement, utilizing cleaner, renewable energy, and strategies to reduce methane emissions from agricultural and other wastes.

The 2017 Scoping Plan establishes a new emissions limit of 260 $MMTCO_2e$ for the year 2030, which corresponds to a 40 percent decrease in 1990 levels by 2030.

California's climate strategy will require contributions from all sectors of the economy, including the land base, and will include enhanced focus on zero- and near-zero-emission (ZE/NZE) vehicle technologies; continued investment in renewables, including solar roofs, wind, and other distributed generation; greater use of low carbon fuels; integrated land conservation and development strategies; coordinated efforts to reduce emissions of short-lived climate pollutants (methane, black carbon, and fluorinated gases); and an increased focus on integrated land use planning to support livable, transit-connected communities and conservation of agricultural and other lands. Requirements for direct GHG reductions at refineries will further support air quality co-benefits in neighborhoods, including in disadvantaged communities historically located adjacent to these large stationary sources, as well as efforts with California's local air pollution control and air quality management districts (air districts) to tighten emission limits on a broad spectrum of industrial sources. Major elements of the 2017 Scoping Plan framework include:

- Implementing and/or increasing the standards of the Mobile Source Strategy, which include increasing ZEV buses and trucks.
- LCFS, with an increased stringency (18 percent by 2030).
- Implementing SB 350, which expands the RPS to 50 percent RPS and doubles energy efficiency savings by 2030.
- California Sustainable Freight Action Plan, which improves freight system efficiency, utilizes near-zero emissions technology, and deployment of zero-emission vehicles (ZEV) trucks.
- Implementing the proposed Short-Lived Climate Pollutant Strategy (SLPS), which focuses on reducing methane and hydroflurocarbon emissions by 40 percent and anthropogenic black carbon emissions by 50 percent by year 2030.
- Continued implementation of SB 375.
- Post-2020 Cap-and-Trade Program that includes declining caps.
- 20 percent reduction in GHG emissions from refineries by 2030.
- Development of a Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

Note, however, that the 2017 Scoping Plan acknowledges that:

> *[a]chieving net zero increases in GHG emissions, resulting in no contribution to GHG impacts, may not be feasible or appropriate for every project, however, and the inability of a project to mitigate its GHG emissions to net zero does not imply the project results in a substantial contribution to the cumulatively significant environmental impact of climate change under CEQA.*

In addition to the statewide strategies listed above, the 2017 Scoping Plan also identifies local governments as essential partners in achieving the State's long-term GHG reduction goals and identifies local actions to reduce GHG emissions. As part of the recommended actions, CARB recommends that local governments achieve a community-wide goal to achieve emissions of no more than 6 metric tons of CO_2e ($MTCO_2e$) or less per capita by 2030 and 2 $MTCO_2e$ or less per capita by 2050. For CEQA projects, CARB states that lead agencies may develop evidenced-based bright-line numeric thresholds—consistent with the Scoping Plan and the State's long-term GHG goals—and projects with emissions over that amount may be required to incorporate on-site design features and mitigation measures that avoid or minimize project emissions to the degree feasible; or, a performance-based metric using a climate action plan or other plan to reduce GHG emissions is appropriate.

According to research conducted by the Lawrence Berkeley National Laboratory (LBNL) and supported by CARB, California, under its existing and proposed GHG reduction policies, is on track to meet the 2020 reduction targets under AB 32 and could achieve the 2030 goals under SB 32. The research utilized a new, validated model known as the California LBNL GHG Analysis of Policies Spreadsheet (CALGAPS), which simulates GHG and criteria pollutant emissions in California from 2010 to 2050 in accordance to existing and future GHG-reducing policies. The CALGAPS model showed that GHG emissions through 2020 could range from 317 to 415 $MTCO_2e$ per year, "indicating that existing state policies will likely allow California to meet its target [of 2020 levels under AB 32]." CALGAPS also showed that by 2030, emissions could range from 211 to 428 $MTCO_2e$ per year, indicating that "even if all modeled policies are not implemented, reductions could be sufficient to reduce emissions 40 percent below the 1990 level [of SB 32]." CALGAPS analyzed emissions through 2050 even though it did not generally account for policies that might be put in place after 2030. Although the research indicated that the emissions would not meet the State's 80 percent reduction goal by 2050, various combinations of policies could allow California's cumulative emissions to remain very low through 2050 (33) (34).

Senate Bill 32. On September 8, 2016, Governor Jerry Brown signed the Senate Bill (SB) 32 and its companion bill, Assembly Bill (AB) 197. SB 32 requires the state to reduce statewide GHG emissions to 40 percent below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15. The new legislation builds upon the AB 32 goal of 1990 levels by 2020 and provides an intermediate goal to achieving S-3-05, which sets a statewide GHG reduction target of 80 percent below 1990 levels by 2050. AB 197 creates a legislative committee to oversee regulators to ensure that CARB not only responds to the Governor, but also the Legislature (11).

Cap-and-Trade Program. The Scoping Plan identifies a Cap-and-Trade Program as one of the key strategies for California to reduce GHG emissions. According to CARB, a cap-and-trade program will help put California on the path to meet its goal of reducing GHG emissions to 1990 levels by the year 2020 and ultimately achieving an 80 percent reduction from 1990 levels by 2050. Under

cap-and-trade, an overall limit on GHG emissions from capped sectors is established, and facilities subject to the cap will be able to trade permits to emit GHGs within the overall limit.

CARB adopted a California Cap-and-Trade Program pursuant to its authority under AB 32. See Title 17 of the California Code of Regulations (CCR) §§ 95800 to 96023). The Cap-and-Trade Program is designed to reduce GHG emissions from major sources (deemed "covered entities") by setting a firm cap on statewide GHG emissions and employing market mechanisms to achieve AB 32's emission-reduction mandate of returning to 1990 levels of emissions by 2020. The statewide cap for GHG emissions from the capped sectors (e.g., electricity generation, petroleum refining, and cement production) commenced in 2013 and will decline over time, achieving GHG emission reductions throughout the program's duration.

Covered entities that emit more than 25.000 $MTCO_2e$ per year must comply with the Cap-and-Trade Program. Triggering of the 25.000 $MTCO_2e$ per year "inclusion threshold" is measured against a subset of emissions reported and verified under the California Regulation for the Mandatory Reporting of GHG Emissions (Mandatory Reporting Rule or "MRR").

Under the Cap-and-Trade Program, CARB issues allowances equal to the total amount of allowable emissions over a given compliance period and distributes these to regulated entities. Covered entities are allocated free allowances in whole or part (if eligible), and may buy allowances at auction, purchase allowances from others, or purchase offset credits. Each covered entity with a compliance obligation is required to surrender "compliance instruments" (30) for each $MTCO_2e$ of GHG they emit. There also are requirements to surrender compliance instruments covering 30 percent of the prior year's compliance obligation by November of each year. For example, in November 2014, a covered entity was required to submit compliance instruments to cover 30 percent of its 2013 GHG emissions.

The Cap-and-Trade Program provides a firm cap, ensuring that the 2020 statewide emission limit will not be exceeded. An inherent feature of the Cap-and-Trade program is that it does not guarantee GHG emissions reductions in any discrete location or by any particular source. Rather, GHG emissions reductions are only guaranteed on an accumulative basis. As summarized by CARB in the First Update:

> *The Cap-and-Trade Regulation gives companies the flexibility to trade allowances with others or take steps to cost-effectively reduce emissions at their own facilities. Companies that emit more have to turn in more allowances or other compliance instruments. Companies that can cut their GHG emissions have to turn in fewer allowances. But as the cap declines, aggregate emissions must be reduced. In other words, a covered entity theoretically could increase its GHG emissions every year and still comply with the Cap-and-Trade Program if there is a reduction in GHG emissions from other covered entities. Such a focus on aggregate GHG emissions is considered appropriate because climate change is a global phenomenon, and the effects of GHG emissions are considered cumulative (CARB 2014).*

The Cap-and-Trade Program works with other direct regulatory measures and provides an economic incentive to reduce emissions. If California's direct regulatory measures reduce GHG

emissions more than expected, then the Cap-and-Trade Program will be responsible for relatively fewer emissions reductions. If California's direct regulatory measures reduce GHG emissions less than expected, then the Cap-and-Trade Program will be responsible for relatively more emissions reductions. Thus, the Cap-and-Trade Program assures that California will meet its 2020 GHG emissions reduction mandate:

> *The Cap-and-Trade Program establishes an overall limit on GHG emissions from most of the California economy—the "capped sectors." Within the capped sectors, some of the reductions are being accomplished through direct regulations, such as improved building and appliance efficiency standards, the [Low Carbon Fuel Standard] LCFS, and the 33 percent [Renewables Portfolio Standard] RPS. Whatever additional reductions are needed to bring emissions within the cap is accomplished through price incentives posed by emissions allowance prices. Together, direct regulation and price incentives assure that emissions are brought down cost-effectively to the level of the overall cap. The Cap-and-Trade Regulation provides assurance that California's 2020 limit will be met because the regulation sets a firm limit on 85 percent of California's GHG emissions. In sum, the Cap-and-Trade Program will achieve aggregate, rather than site specific or project-level, GHG emissions reductions. Also, due to the regulatory architecture adopted by CARB in AB 32, the reductions attributed to the Cap-and-Trade Program can change over time depending on the State's emissions forecasts and the effectiveness of direct regulatory measures (CARB 2014).*

As of January 1, 2015, the Cap-and-Trade Program covered approximately 85 percent of California's GHG emissions. The Cap-and-Trade Program covers the GHG emissions associated with electricity consumed in California, whether generated in-state or imported. Accordingly, GHG emissions associated with CEQA projects' electricity usage are covered by the Cap-and-Trade Program.

The Cap-and-Trade Program also covers fuel suppliers (natural gas and propane fuel providers and transportation fuel providers) to address emissions from such fuels and from combustion of other fossil fuels not directly covered at large sources in the Program's first compliance period. While the Cap-and-Trade Program technically covered fuel suppliers as early as 2012, they did not have a compliance obligation (i.e., they were not fully regulated) until 2015. The Cap-and-Trade Program covers the GHG emissions associated with the combustion of transportation fuels in California, whether refined in-state or imported. The point of regulation for transportation fuels is when they are "supplied" (i.e., delivered into commerce). Accordingly, as with stationary source GHG emissions and GHG emissions attributable to electricity use, virtually all, if not all, of GHG emissions from CEQA projects associated with VMT are covered by the Cap-and-Trade Program (CARB 2015) (35).

In addition, the Scoping Plan differentiates between "capped" and "uncapped" strategies. "Capped" strategies are subject to the proposed cap-and-trade program. The Scoping Plan states that the inclusion of these emissions within the Program will help ensure that the year 2020 emission targets are met despite some degree of uncertainty in the emission reduction estimates for any individual measure. Implementation of the capped strategies is calculated to achieve a

sufficient amount of reductions by 2020 to achieve the emission target contained in AB 32. "Uncapped" strategies that will not be subject to the cap-and-trade emissions caps and requirements are provided as a margin of safety by accounting for additional GHG emission reductions.[3]

SB 375 – the Sustainable Communities and Climate Protection Act of 2008. Passing the Senate on August 30, 2008, Senate Bill (SB) 375 was signed by the Governor on September 30, 2008. According to SB 375, the transportation sector is the largest contributor of GHG emissions, which emits over 40 percent of the total GHG emissions in California. SB 375 states, "Without improved land use and transportation policy, California will not be able to achieve the goals of AB 32." SB 375 does the following: it (1) requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing GHG emissions, (2) aligns planning for transportation and housing, and (3) creates specified incentives for the implementation of the strategies.

Concerning CEQA, SB 375, as codified in Public Resources Code Section 21159.28, states that CEQA findings for certain projects are not required to reference, describe, or discuss (1) growth inducing impacts, or (2) any project-specific or cumulative impacts from cars and light-duty truck trips generated by the project on global warming or the regional transportation network, if the project:

1. Is in an area with an approved sustainable communities strategy or an alternative planning strategy that the CARB accepts as achieving the GHG emission reduction targets.
2. Is consistent with that strategy (in designation, density, building intensity, and applicable policies).
3. Incorporates the mitigation measures required by an applicable prior environmental document.

AB 1493 Pavley Regulations and Fuel Efficiency Standards. California AB 1493, enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Implementation of the regulation was delayed by lawsuits filed by automakers and by the EPA's denial of an implementation waiver. The EPA subsequently granted the requested waiver in 2009, which was upheld by the U.S. District Court for the District of Columbia in 2011.

The standards phase in during the 2009 through 2016 model years. When fully phased in, the near-term (2009–2012) standards will result in about a 22 percent reduction compared with the 2002 fleet, and the mid-term (2013–2016) standards will result in about a 30 percent reduction. Several technologies stand out as providing significant reductions in emissions at favorable costs. These include discrete variable valve lift or camless valve actuation to optimize valve operation rather than relying on fixed valve timing and lift as has historically been done; turbocharging to

[3] On March 17, 2011, the San Francisco Superior Court issued a final decision in *Association of Irritated Residents v. California Air Resources Board* (Case No. CPF-09-509562). While the Court upheld the validity of the CARB Scoping Plan for the implementation of AB 32, the Court enjoined CARB from further rulemaking under AB 32 until CARB amends its CEQA environmental review of the Scoping Plan to address the flaws identified by the Court. On May 23, 2011, CARB filed an appeal. On June 24, 2011, the Court of Appeal granted CARB's petition staying the trail court's order pending consideration of the appeal. In the interest of informed decision-making, on June 13, 2011, CARB released the expanded alternatives analysis in a draft Supplement to the AB 32 Scoping Plan Functional Equivalent Document. The CARB Board approved the Scoping Plan and the CEQA document on August 24, 2011.

boost power and allow for engine downsizing; improved multi-speed transmissions; and improved air conditioning systems that operate optimally, leak less, and/or use an alternative refrigerant.

The second phase of the implementation for the Pavley bill was incorporated into Amendments to the Low-Emission Vehicle Program referred to as LEV III or the Advanced Clean Cars program. The Advanced Clean Car program combines the control of smog-causing pollutants and GHG emissions into a single coordinated package of requirements for model years 2017 through 2025. The regulation will reduce GHGs from new cars by 34 percent from 2016 levels by 2025. The new rules will clean up gasoline and diesel-powered cars, and deliver increasing numbers of zero-emission technologies, such as full battery electric cars, newly emerging plug-in hybrid electric vehicles and hydrogen fuel cell cars. The package will also ensure adequate fueling infrastructure is available for the increasing numbers of hydrogen fuel cell vehicles planned for deployment in California.

SB 350— Clean Energy and Pollution Reduction Act of 2015. In October 2015, the legislature approved, and the Governor signed SB 350, which reaffirms California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the RPS, higher energy efficiency requirements for buildings, initial strategies towards a regional electricity grid, and improved infrastructure for electric vehicle charging stations. Provisions for a 50 percent reduction in the use of petroleum statewide were removed from the Bill because of opposition and concern that it would prevent the Bill's passage. Specifically, SB 350 requires the following to reduce statewide GHG emissions:

- Increase the amount of electricity procured from renewable energy sources from 33 percent to 50 percent by 2030, with interim targets of 40 percent by 2024, and 25 percent by 2027.
- Double the energy efficiency in existing buildings by 2030. This target will be achieved through the California Public Utility Commission (CPUC), the California Energy Commission (CEC), and local publicly owned utilities.
- Reorganize the Independent System Operator to develop more regional electrify transmission markets and to improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States (California Leginfo 2015).

EXECUTIVE ORDERS RELATED TO GHG EMISSIONS

California's Executive Branch has taken several actions to reduce GHGs through the use of Executive Orders. Although not regulatory, they set the tone for the state and guide the actions of state agencies.

Executive Order B-55-18 and SB 100. Executive Order B-55-18 and SB 100. SB 100 and Executive Order B-55-18 were signed by Governor Brown on September 10, 2018. Under the existing RPS, 25 percent of retail sales are required to be from renewable sources by December 31, 2016, 33 percent by December 31, 2020, 40 percent by December 31, 2024, 45 percent by December 31, 2027, and 50 percent by December 31, 2030. SB 100 raises California's RPS requirement to 50 percent renewable resources target by December 31, 2026, and to achieve a 60 percent target by December 31, 2030. SB 100 also requires that retail sellers and local publicly owned electric utilities procure a minimum quantity of electricity products from eligible renewable energy

resources so that the total kilowatt hours of those products sold to their retail end-use customers achieve 44 percent of retail sales by December 31, 2024, 52 percent by December 31, 2027, and 60 percent by December 31, 2030. In addition to targets under AB 32 and SB 32, Executive Order B-55-18 establishes a carbon neutrality goal for the state of California by 2045; and sets a goal to maintain net negative emissions thereafter. The Executive Order directs the California Natural Resources Agency (CNRA), California Environmental Protection Agency (CalEPA), the Department of Food and Agriculture (CDFA), and CARB to include sequestration targets in the Natural and Working Lands Climate Change Implementation Plan consistent with the carbon neutrality goal.

Executive Order S-3-05. Former California Governor Arnold Schwarzenegger announced on June 1, 2005, through Executive Order S-3-05, the following reduction targets for GHG emissions:

- By 2010, reduce GHG emissions to 2000 levels.
- By 2020, reduce GHG emissions to 1990 levels.
- By 2050, reduce GHG emissions to 80 percent below 1990 levels.

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an executive order, the goals are not legally enforceable for local governments or the private sector.

Executive Order S-01-07 – Low Carbon Fuel Standard. The Governor signed Executive Order S-01-07 on January 18, 2007. The order mandates that a statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020. In particular, the Executive Order established a LCFS and directed the Secretary for Environmental Protection to coordinate the actions of the CEC, the CARB, the University of California, and other agencies to develop and propose protocols for measuring the "life-cycle carbon intensity" of transportation fuels. This analysis supporting development of the protocols was included in the State Implementation Plan for alternative fuels (State Alternative Fuels Plan adopted by CEC on December 24, 2007) and was submitted to CARB for consideration as an "early action" item under AB 32. The CARB adopted the LCFS on April 23, 2009.

The LCFS was challenged in the U.S. District Court in Fresno in 2011. The court's ruling issued on December 29, 2011, included a preliminary injunction against CARB's implementation of the rule. The Ninth Circuit Court of Appeals stayed the injunction on April 23, 2012, pending final ruling on appeal, allowing CARB to continue to implement and enforce the regulation. The Ninth Circuit Court's decision, filed September 18, 2013, vacated the preliminary injunction. In essence, the court held that LCFS adopted by CARB were not in conflict with federal law. On August 8, 2013, the Fifth District Court of Appeal (California) ruled CARB failed to comply with CEQA and the Administrative Procedure Act (APA) when adopting regulations for LCFS. In a partially published opinion, the Court of Appeal reversed the trial court's judgment and directed issuance of a writ of mandate setting aside Resolution 09-31 and two executive orders of CARB approving LCFS regulations promulgated to reduce GHG emissions. However, the court tailored its remedy to protect the public interest by allowing the LCFS regulations to remain operative while CARB complies with the procedural requirements it failed to satisfy.

To address the Court ruling, CARB was required to bring a new LCFS regulation to the Board for consideration in February 2015. The proposed LCFS regulation was required to contain revisions to the 2010 LCFS as well as new provisions designed to foster investments in the production of the low-carbon intensity fuels, offer additional flexibility to regulated parties, update critical technical information, simplify and streamline program operations, and enhance enforcement. On November 16, 2015 the Office of Administrative Law (OAL) approved the Final Rulemaking Package. The new LCFS regulation became effective on January 1, 2016.

Executive Order S-13-08. Executive Order S-13-08 states that "climate change in California during the next century is expected to shift precipitation patterns, accelerate sea level rise and increase temperatures, thereby posing a serious threat to California's economy, to the health and welfare of its population and to its natural resources." Pursuant to the requirements in the Order, the 2009 California Climate Adaptation Strategy (CNRA 2009) was adopted, which is the ". . . first statewide, multi-sector, region-specific, and information-based climate change adaptation strategy in the United States." Objectives include analyzing risks of climate change in California, identifying and exploring strategies to adapt to climate change, and specifying a direction for future research.

Executive Order B-30-15. On April 29, 2015, Governor Edmund G. Brown Jr. issued an executive order to establish a California GHG reduction target of 40 percent below 1990 levels by 2030. The Governor's executive order aligns California's GHG reduction targets with those of leading international governments ahead of the United Nations Climate Change Conference in Paris late 2015. The Order sets a new interim statewide GHG emission reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030 in order to ensure California meets its target of reducing GHG emissions to 80 percent below 1990 levels by 2050 and directs CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of $MMTCO_2e$. The Order also requires the state's climate adaptation plan to be updated every three years, and for the State to continue its climate change research program, among other provisions. As with Executive Order S-3-05, this Order is not legally enforceable for local governments and the private sector. Legislation that would update AB 32 to make post 2020 targets and requirements a mandate is in process in the State Legislature.

CALIFORNIA REGULATIONS AND BUILDING CODES

California has a long history of adopting regulations to improve energy efficiency in new and remodeled buildings. These regulations have kept California's energy consumption relatively flat even with rapid population growth.

Title 20 Appliance Efficiency Standards. CCR, Title 20: Division 2, Chapter 4, Article 4, Sections 1601-1608: Appliance Efficiency Regulations regulates the sale of appliances in California. The Appliance Efficiency Regulations include standards for both federally regulated appliances and non-federally regulated appliances. 23 categories of appliances are included in the scope of these regulations. The standards within these regulations apply to appliances that are sold or offered for sale in California, except those sold wholesale in California for final retail sale outside the state and those designed and sold exclusively for use in recreational vehicles or other mobile equipment (CEC 2012).

Title 24 Energy Efficiency Standards and California Green Building Standards. CCR Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The 2019 version of Title 24 was adopted by the CEC and will become effective on January 1, 2020. As such, the analysis herein assumes compliance with the 2019 Title 24 Standards.

The CEC indicates that the 2019 Title 24 standards will require solar photovoltaic systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, update indoor and outdoor lighting for nonresidential buildings. The CEC anticipates that single-family homes built with the 2019 standards will use approximately 7 percent less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar photovoltaic systems, homes built under the 2019 standards will about 53 percent less energy than homes built under the 2016 standards. Nonresidential buildings will use approximately 30 percent less energy due to lighting upgrades (36).

CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on January 1, 2011, and is administered by the California Building Standards Commission (BSC). CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2019 California Green Building Code Standards that will be effective January 1, 2020. Local jurisdictions are permitted to adopt more stringent requirements, as state law provides methods for local enhancements. CALGreen recognizes that many jurisdictions have developed existing construction and demolition ordinances and defers to them as the ruling guidance provided, they establish a minimum 65 percent diversion requirement. The code also provides exemptions for areas not served by construction and demolition recycling infrastructure. The State Building Code provides the minimum standard that buildings must meet in order to be certified for occupancy, which is generally enforced by the local building official. 2019 CALGreen standards are applicable to the Project and require (37):

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).

- Construction waste management. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phase project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
    - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
    - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
    - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
    - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of note more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).
- Outdoor portable water use in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 square feet or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gal/day (5.303.1.1 and 5.303.1.2).
- Outdoor water use in rehabilitated landscape projects equal or greater than 2,500 square feet. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 square feet requiring a building or landscape permit (5.304.3).

Commissioning. For new buildings 10,000 square feet and over, building commissioning shall b included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

Model Water Efficient Landscape Ordinance. The Model Water Efficient Landscape Ordinance ("Ordinance") was required by AB 1881, the Water Conservation Act. The bill required local agencies to adopt a local landscape ordinance at least as effective in conserving water as the Model Ordinance by January 1, 2010. Reductions in water use of 20 percent consistent with (SBX-7-7) 2020 mandate are expected upon compliance with the ordinance. Governor Brown's Drought Executive Order of April 1, 2015 (EO B-29-15) directed Department of Water Resources (DWR) to update the Ordinance through expedited regulation. The California Water Commission approved the revised Ordinance on July 15, 2015 effective December 15, 2015. New development projects that include landscape areas of 500 sf or more are subject to the Ordinance. The update requires:

- More efficient irrigation systems;
- Incentives for graywater usage;
- Improvements in on-site stormwater capture;
- Limiting the portion of landscapes that can be planted with high water use plants; and
- Reporting requirements for local agencies.

CARB Refrigerant Management Program. CARB adopted a regulation in 2009 to reduce refrigerant GHG emissions from stationary sources through refrigerant leak detection and monitoring, leak repair, system retirement and retrofitting, reporting and recordkeeping, and proper refrigerant cylinder use, sale, and disposal. The regulation is set forth in sections 95380 to 95398 of Title 17, CCR. The rules implementing the regulation establish a limit on statewide GHG emissions from stationary facilities with refrigeration systems with more than 50 pounds of a high GWP refrigerant. The refrigerant management program is designed to (1) reduce emissions of high-GWP GHG refrigerants from leaky stationary, non-residential refrigeration equipment; (2) reduce emissions from the installation and servicing of refrigeration and air-conditioning appliances using high-GWP refrigerants; and (3) verify GHG emission reductions.

Tractor-Trailer GHG Regulation. The tractors and trailers subject to this regulation must either use EPA SmartWay certified tractors and trailers or retrofit their existing fleet with SmartWay verified technologies. The regulation applies primarily to owners of 53-foot or longer box-type trailers, including both dry-van and refrigerated-van trailers, and owners of the HD tractors that pull them on California highways. These owners are responsible for replacing or retrofitting their affected vehicles with compliant aerodynamic technologies and low rolling resistance tires. Sleeper cab tractors model year 2011 and later must be SmartWay certified. All other tractors must use SmartWay verified low rolling resistance tires. There are also requirements for trailers to have low rolling resistance tires and aerodynamic devices.

Phase I and 2 Heavy-Duty Vehicle GHG Standards. CARB has adopted a new regulation for GHG emissions from HD trucks and engines sold in California. It establishes GHG emission limits on truck and engine manufacturers and harmonizes with the EPA rule for new trucks and engines nationally. Existing HD vehicle regulations in California include engine criteria emission standards, tractor-trailer GHG requirements to implement SmartWay strategies (i.e., the Heavy-Duty Tractor-Trailer Greenhouse Gas Regulation), and in-use fleet retrofit requirements such as the Truck and Bus Regulation. In September 2011, the U.S. EPA adopted their new rule for HD

trucks and engines. The EPA rule has compliance requirements for new compression and spark ignition engines, as well as trucks from Class 2b through Class 8. Compliance requirements begin with model year (MY) 2014 with stringency levels increasing through MY 2018. The rule organizes truck compliance into three groupings, which include a) HD pickups and vans; b) vocational vehicles; and c) combination tractors. The EPA rule does not regulate trailers.

CARB staff has worked jointly with the EPA and the NHTSA on the next phase of federal GHG emission standards for MD and HD vehicles, called federal Phase 2. The federal Phase 2 standards were built on the improvements in engine and vehicle efficiency required by the Phase 1 emission standards and represent a significant opportunity to achieve further GHG reductions for 2018 and later model year HD vehicles, including trailers. But as discussed above, the EPA and NHTSA have proposed to roll back GHG and fuel economy standards for cars and light-duty trucks, which suggests a similar rollback of Phase 2 standards for MD and HD vehicles may be pursued.

SB 97 and the CEQA Guidelines Update. Passed in August 2007, SB 97 added Section 21083.05 to the Public Resources Code. The code states "(a) On or before July 1, 2009, the Office of Planning and Research shall prepare, develop, and transmit to the Resources Agency guidelines for the mitigation of GHG emissions or the effects of GHG emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption. (b) On or before January 1, 2010, the Resources Agency shall certify and adopt guidelines prepared and developed by the Office of Planning and Research pursuant to subdivision (a)." Section 21097 was also added to the Public Resources Code. It provided CEQA protection until January 1, 2010 for transportation projects funded by the Highway Safety, Traffic Reduction, Air Quality, and Port Security Bond Act of 2006 or projects funded by the Disaster Preparedness and Flood Prevention Bond Act of 2006, in stating that the failure to analyze adequately the effects of GHGs would not violate CEQA.

On December 28, 2018, the Natural Resources Agency announced the OAL approved the amendments to the CEQA Guidelines for implementing the CEQA. The CEQA Amendments provide guidance to public agencies regarding the analysis and mitigation of the effects of GHG emissions in CEQA documents. The CEQA Amendments fit within the existing CEQA framework by amending existing CEQA Guidelines to reference climate change.

Section 1506.4 was amended to state that in determining the significance of a project's GHG emissions, the lead agency should focus its analysis on the reasonably foreseeable incremental contribution of the project's emissions to the effects of climate change. A project's incremental contribution may be cumulatively considerable even if it appears relatively small compared to statewide, national or global emissions. The agency's analysis should consider a timeframe that is appropriate for the project. The agency's analysis also must reasonably reflect evolving scientific knowledge and state regulatory schemes. Additionally, a lead agency may use a model or methodology to estimate GHG emissions resulting from a project. The lead agency has discretion to select the model or methodology it considers most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change. The lead agency must support its selection of a model or methodology with substantial evidence. The lead agency should explain the limitations of the particular model or methodology selected for use (38).

REGIONAL

The project is within the South Coast Air Basin (SCAB), which is under the jurisdiction of the SCAQMD.

South Coast Air Quality Management District

SCAQMD is the agency responsible for air quality planning and regulation in the SCAB. The SCAQMD addresses the impacts to climate change of projects subject to SCAQMD permit as a lead agency if they are the only agency having discretionary approval for the project and acts as a responsible agency when a land use agency must also approve discretionary permits for the project. The SCAQMD acts as an expert commenting agency for impacts to air quality. This expertise carries over to GHG emissions, so the agency helps local land use agencies through the development of models and emission thresholds that can be used to address GHG emissions.

In 2008, SCAQMD formed a Working Group to identify GHG emissions thresholds for land use projects that could be used by local lead agencies in the SCAB. The Working Group developed several different options that are contained in the SCAQMD Draft Guidance Document – Interim CEQA GHG Significance Threshold, that could be applied by lead agencies. The working group has not provided additional guidance since release of the interim guidance in 2008. The SCAQMD Board has not approved the thresholds; however, the Guidance Document provides substantial evidence supporting the approaches to significance of GHG emissions that can be considered by the lead agency in adopting its own threshold. The current interim thresholds consist of the following tiered approach:

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether the project is consistent with a GHG reduction plan. If a project is consistent with a qualifying local GHG reduction plan, it does not have significant GHG emissions.
- Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to the project's operational emissions. If a project's emissions are below one of the following screening thresholds, then the project is less than significant:
    - Residential and Commercial land use: 3,000 $MTCO_2e$ per year
    - Industrial land use: 10,000 $MTCO_2e$ per year
    - Based on land use type: residential: 3,500 $MTCO_2e$ per year; commercial: 1,400 $MTCO_2e$ per year; or mixed use: 3,000 $MTCO_2e$ per year
- Tier 4 has the following options:
    - Option 1: Reduce BAU emissions by a certain percentage; this percentage is currently undefined.
    - Option 2: Early implementation of applicable AB 32 Scoping Plan measures
    - Option 3, 2020 target for service populations (SP), which includes residents and employees: 4.8 $MTCO_2e$/SP/year for projects and 6.6 $MTCO_2e$/SP/year for plans;
    - Option 3, 2035 target: 3.0 $MTCO_2e$/SP/year for projects and 4.1 $MTCO_2e$/SP/year for plans

- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's interim thresholds used the Executive Order S-3-05-year 2050 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap carbon dioxide concentrations at 450 ppm, thus stabilizing global climate.

SCAQMD only has authority over GHG emissions from development projects that include air quality permits. At this time, it is unknown if the project would include stationary sources of emissions subject to SCAQMD permits. Notwithstanding, if the Project requires a stationary permit, it would be subject to the applicable SCAQMD regulations.

SCAQMD Regulation XXVII, adopted in 2009 includes the following rules:

- Rule 2700 defines terms and post global warming potentials.
- Rule 2701, SoCal Climate Solutions Exchange, establishes a voluntary program to encourage, quantify, and certify voluntary, high quality certified GHG emission reductions in the SCAQMD.
- Rule 2702, GHG Reduction Program created a program to produce GHG emission reductions within the SCAQMD. The SCAQMD will fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

2.8 THRESHOLDS OF SIGNIFICANCE

The City of Santa Fe Springs has not adopted its own numeric threshold of significance for determining impacts with respect to GHG emissions. The SCAQMD's adopted numerical threshold of 10,000 $MTCO_2e$ per year for industrial stationary source emissions is typically selected as the significance criterion. However, the City has determined that the SCAQMD's draft threshold of 3,000 $MTCO_2e$ per year is more conservative and appropriate for industrial and warehouse land use development projects. The 3,000 $MTCO_2e$ threshold is based on the SCAQMD staff's proposed GHG screening threshold for stationary source emissions for non-industrial projects, as described in the SCAQMD's Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans ("SCAQMD Interim GHG Threshold"). The SCAQMD Interim GHG Threshold identifies a screening threshold to determine whether additional analysis is required (1). This threshold is also consistent with the SCAQMD's draft interim threshold Tier 3.

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3 PROJECT GREENHOUSE GAS IMPACT

3.1 INTRODUCTION

The Project has been evaluated to determine if it will result in a significant GHG impact. The significance of these potential impacts is described in the following section.

3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related GHG impacts are taken from the Initial Study Checklist in Appendix G of the State CEQA Guidelines (14 California Code of Regulations §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to GHG if it would (1):

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
- Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?

3.3 CALIFORNIA EMISSIONS ESTIMATOR MODEL™ EMPLOYED TO ANALYZE GHG EMISSIONS

On October 17, 2017, the SCAQMD, in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the California Emissions Estimator Model™ (CalEEMod) v2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (39). Accordingly, the latest version of CalEEMod™ has been used for this Project to determine GHG emissions. Output from the model runs for construction and operational activity are provided in Appendices 3.1 through 3.4. CalEEMod includes GHG emissions from the following source categories: construction, area, energy, mobile, waste, water.

3.3.1 LAND USES MODELED IN CALEEMOD

The Project is located on 8.34 acres. As previously stated, the Project proposes to construct 163,518 sf of general light industrial use within 3 buildings.

CalEEMod does not provide an extensive selection of land use subtype categories, land uses that most closely fit the Project will be utilized. For purposes of analysis, the following land uses were modeled (40):

- 163.518 thousand square feet (TSF)/3.75 acres of General Light Industry
- 39.093 TSF/0.90 acres Other Non-Asphalt Surfaces[4]

[4] The User's Guide defines Other Non-Asphalt Surfaces as non-asphalt areas. As indicated on the site plan, the landscaped area for Building 1 is 22,420 sf and 16,673 sf for Buildings 2 and 3. For purposes of analysis, this category is used to model the 39,093 sf/0.90 acre of Landscaped areas.

- 136.533 TSF/3.13 acres Other Asphalt Surfaces[5]
- 271 Space Parking Lot[6] on 0.53 acres

3.3.2 EMISSION FACTORS MODEL

Vehicle emissions were estimated using information generated within the 2017 version of the Emission Factor model (EMFAC) developed by the CARB. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (41). This GHGA utilizes summer, winter, and annual EMFAC2017 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season.

3.4 CONSTRUCTION AND OPERATIONAL LIFE-CYCLE ANALYSIS NOT REQUIRED

A full life-cycle analysis (LCA) for construction and operational activity is not included in this analysis due to the lack of consensus guidance on LCA methodology at this time (42). Life-cycle analysis (i.e., assessing economy-wide GHG emissions from the processes in manufacturing and transporting all raw materials used in the project development, infrastructure and on-going operations) depends on emission factors or econometric factors that are not well established for all processes. At this time, an LCA would be extremely speculative and thus has not been prepared.

Additionally, the SCAQMD recommends analyzing direct and indirect project GHG emissions generated within California and not life-cycle emissions because the life-cycle effects from a project could occur outside of California, might not be very well understood or documented, and would be challenging to mitigate (43). Additionally, the science to calculate life cycle emissions is not yet established or well defined; therefore, SCAQMD has not recommended, and is not requiring, life-cycle emissions analysis.

3.5 CONSTRUCTION EMISSIONS

Project construction actvities would generate CO_2 and CH_4 emissions The report *Pioneer Boulevard Development Air Quality Impact Analysis Report* (Urban Crossroads, Inc., 2019) contains detailed information regarding Project construction activities (44). As discussed in the AQIA, Construction related emissions are expected from the following construction activities:

- Demolition
- Site Preparation
- Grading
- Building Construction

[5] For purposes of analysis, the remaining 136,533 sf/3.13 acres will be modeled as Other Asphalt Surfaces. These surfaces are defined as an asphalt area not used as a parking lot.

[6] As indicated on the site plan, the parking landscaped area for Building 1 is 13,224 sf and 10,913 sf for Buildings 2 and 3. For purposes of analysis, this category is used to model the 24,137 sf/0.53 acre of parking landscape area for the 271 parking spaces.

- Paving
- Architectural Coating

3.5.1 CONSTRUCTION DURATION

Construction is expected to commence in June 2020 and will last through August 2021. The construction schedule utilized in the analysis, shown in Table 3-1, represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.[7] The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines*. The duration of construction activity was based on the 2021 opening year and CalEEMod defaults.

TABLE 3-1: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Demolition	6/1/2020	6/26/2020	20
Site Preparation	6/27/2020	7/10/2020	10
Grading	7/11/2020	8/7/2020	20
Building Construction	8/8/2020	6/25/2021	230
Paving	6/26/2021	7/23/2021	20
Architectural Coating	6/26/2021	8/20/2021	40

Source: Construction activity based the 2021 opening year and CalEEMod defaults.

3.5.2 CONSTRUCTION EQUIPMENT

Site specific construction fleet may vary due to specific project needs at the time of construction. The associated construction equipment was generally based on CalEEMod 2016.3.2 defaults. A detailed summary of construction equipment assumptions by phase is provided at Table 3-2. Please refer to specific detailed modeling inputs/outputs contained in Appendix 3.1 of this GHGA.

[7] As shown in the California Emissions Estimator Model (CalEEMod) User's Guide Version 2016.3.2, Section 4.3 "OFFROAD Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

TABLE 3-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Activity	Equipment	Number	Hours Per Day
Demolition	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
Site Preparation	Rubber Tired Dozers	3	8
	Tractors/Loaders/Backhoes	4	8
Grading	Excavators	1	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Tractors/Loaders/Backhoes	3	8
Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

Source: Construction equipment based on CalEEMod defaults.

3.5.3 CONSTRUCTION EMISSIONS SUMMARY

For construction phase Project emissions, GHGs are quantified and amortized over the life of the Project. To amortize the emissions over the life of the Project, the SCAQMD recommends calculating the total GHG emissions for the construction activities, dividing it by a 30-year project life then adding that number to the annual operational phase GHG emissions (45). As such, construction emissions were amortized over a 30-year period and added to the annual operational phase GHG emissions. The amortized construction emissions are presented in Table 3-3.

TABLE 3-3: AMORTIZED ANNUAL CONSTRUCTION EMISSIONS

Year	Emissions (metric tons per year)			
	CO_2	CH_4	N_2O	Total CO_2E
2020	436.87	0.07	0.00	438.57
2021	374.97	0.05	0.00	376.32
Total Annual Construction Emissions	811.84	0.12	0.00	814.89
Amortized Construction Emissions ($MTCO_2e$)	**27.06**	**0.00**	**0.00**	**27.16**

Source: CalEEMod™ model output, See Appendix 3.1 detailed model outputs.

3.6 OPERATIONAL EMISSIONS

Operational activities associated with the proposed Project will result in emissions of CO_2, CH_4, and N_2O from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- On-site Equipment Emissions
- Water Supply, Treatment, and Distribution
- Solid Waste

3.6.1 AREA SOURCE EMISSIONS

Landscape Maintenance Equipment

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shedders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. The emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

3.6.2 ENERGY SOURCE EMISSIONS

Combustion Emissions Associated with Natural Gas and Electricity

GHGs are emitted from buildings as a result of activities for which electricity and natural gas are typically used as energy sources. Combustion of any type of fuel emits CO_2 and other GHGs directly into the atmosphere; these emissions are considered direct emissions associated with a building; the building energy use emissions do not include street lighting[8]. GHGs are also emitted

[8] The CalEEMod emissions inventory model does not include indirect emission related to street lighting. Indirect emissions related to street lighting are expected to be negligible and cannot be accurately quantified at this time as there is insufficient information as to the number and type of street lighting that would occur.

during the generation of electricity from fossil fuels; these emissions are considered to be indirect emissions. Unless otherwise noted, CalEEMod default parameters were used.

Title 24 Energy Efficiency Standards

California's Energy Efficiency Standards for Residential and Nonresidential Buildings was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity. The 2019 version of Title 24 was adopted by the CEC and will become effective on January 1, 2020. As such, the analysis herein assumes compliance with the 2019 Title 24 Standards.

3.6.3 MOBILE SOURCE EMISSIONS

Vehicles

Project mobile source GHG impacts are dependent on both overall daily vehicle trip generation and the effect of the Project on peak hour traffic volumes and traffic operations in the vicinity of the Project. The Project related greenhouse gas impacts derive primarily from vehicle trips generated by the Project. Trip characteristics available from the *Trip Generation Analysis for Pioneer Boulevard Development, Santa Fe Springs* (EPD Solutions, Inc.) were utilized in this analysis (46). As per information provided by EPD Solutions, Inc., the following Institute of Transportation Engineers (ITE) land use codes have been utilized:

- General Light Industrial (ITE 110): A light industrial facility is a free-standing facility devoted to a single use. The facility has an emphasis on activities other than manufacturing and typically has minimal office space.

3.6.3.1 Trip Length

SCAQMD Recommendation

In the last five years, the SCAQMD has provided numerous comments on the trip length for warehouse/distribution and industrial land use projects. The SCAQMD asserts that the model-default trip length in CalEEMod™ and the URBan EMISsions (URBEMIS) 2007 model (version 9.2.4) would underestimate emissions. It should be noted that for warehouse, distribution center, and industrial land use projects, most of the heavy-duty trucks would be hauling consumer goods, often from the POLA and POLB and/or to destinations outside of California. The SCAQMD states that for this reason, the CalEEMod™ and the URBEMIS model default trip length (approximately 12.6 miles) would not be representative of activities at like facilities. The average trip length for heavy trucks were based on the SCAQMD documents for the implementation of the Facility-Based Mobile Source Measures (FBMSMs) adopted in the 2016 AQMP. SCAQMD's "Preliminary Warehouse Emission Calculations" cites 39.9-mile trip length for heavy-heavy trucks (47).

Approach for Analysis of the Project

Two separate model runs were utilized in order to more accurately model emissions resulting from vehicle operations. The first run analyzed passenger car emissions, which incorporated a

default trip length of 16.6 miles for passenger cars, an assumption of 100% primary trips, and a fleet mix of 60.11% Light-Duty-Auto vehicles (LDA), 4.73% Light-Duty Trucks (LDT1)[9], 21.98% Light-Duty Trucks (LDT2)[10], and 13.18% Medium-Duty Vehicles (MDV). The second run analyzed truck emissions, which incorporated an average truck trip length of 40 miles, an assumption of 100% primary trips, and a fleet mix of 37.36% of Light-Heavy-Duty Trucks (LHDT), 18.39% of Medium-Heavy-Duty Trucks (MHDT), and 44.25% of Heavy-Heavy-Duty Trucks (HHDT).

3.6.4 On-Site Equipment Emissions

It is common for industrial buildings to require cargo handling equipment to move empty containers and empty chassis to and from the various pieces of cargo handling equipment that receive and distribute containers. The most common type of cargo handling equipment is the yard truck which is designed for moving cargo containers. Yard trucks are also known as yard goats, utility tractors (UTRs), hustlers, yard hostlers, and yard tractors. The cargo handling equipment is assumed to have a horsepower (hp) range of approximately 175 hp to 200 hp. Based on the latest available information from SCAQMD (48); for example, high-cube warehouse projects typically have 3.6 yard trucks per million square feet of building space. For this particular Project, based on the maximum square footage of manufacturing use permitted by the proposed Project, on-site modeled operational equipment includes one (1) 200 hp, compressed natural gas-powered yard tractors operating at 4 hours a day for 365 days of the year**.**

3.6.5 Water Supply, Treatment and Distribution

Indirect GHG emissions result from the production of electricity used to convey, treat and distribute water and wastewater. The amount of electricity required to convey, treat and distribute water depends on the volume of water as well as the sources of the water. CalEEMod default parameters were used to estimate GHG emissions associated with water supply, treatment and distribution for the Project scenario.

3.6.6 Solid Waste

Industrial land uses will result in the generation and disposal of solid waste. A large percentage of this waste will be diverted from landfills by a variety of means, such as reducing the amount of waste generated, recycling, and/or composting. The remainder of the waste not diverted will be disposed of at a landfill. GHG emissions from landfills are associated with the anaerobic breakdown of material. GHG emissions associated with the disposal of solid waste associated with the proposed Project were calculated by the CalEEMod™ model using default parameters.

[9] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

[10] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

3.7 EMISSIONS SUMMARY

3.7.1 EXISTING GHG EMISSIONS

The Project site is currently developed with 149,605 sf business park and 8,064 sf general office building uses. The estimated GHG emissions from the existing development are summarized on Table 3-4. Detailed operation model outputs are presented in Appendix 3.4.

TABLE 3-4: EXISTING GHG EMISSIONS

Emission Source	Existing Emissions (MT/yr)			
	CO_2	CH_4	N_2O	Total CO_2E
Area Source	3.91e-03	1.00e-05	0.00	4.17e-03
Energy Source	790.51	0.03	7.56e-03	793.53
Mobile Source	1,942.99	0.13	0.00	1,946.23
Waste	29.76	1.76	0.00	73.74
Water Usage	185.94	0.92	0.02	215.83
Total CO_2E (All Sources)	**3,029.33**			

Source: CalEEMod™ model output, See Appendix 3.4 detailed model outputs.

3.7.2 PROJECT GHG EMISSIONS

The annual GHG emissions associated with the operation of the proposed Project are summarized in Table 3-5. It should be noted that the existing development emissions (previously presented in Table 3-4) were subtracted from the Project GHG emissions to determine the new emissions from the proposed Project. Detailed operation model outputs for the Project are presented in Appendices 3.2 through 3.3. As shown in Table 3-5, the Project would generate an incremental impact of approximately 1,986.98 $MTCO_2e$ per year.

TABLE 3-5: PROJECT GHG EMISSIONS

Emission Source	Emissions (MT/yr)			
	CO_2	CH_4	N_2O	Total CO_2E
Annual construction-related emissions amortized over 30 years	27.06	0.00	0.00	27.16
Area Source	0.02	4.00e-05	0.00	0.02
Energy Source	619.55	0.02	6.49e-03	622.05
Mobile Source (Passenger Car)	1,184.50	0.03	0.00	1,185.26
Mobile Source (Truck)	2,817.19	0.10	0.00	2,819.69
On-Site Equipment	50.84	0.02	0.00	51.25
Waste	41.16	2.43	0.00	101.97
Water Usage	168.88	1.24	0.03	208.91
Total CO_2E (All Sources)	**5,016.31**			
Existing Emissions	***-3,029.33***			
Net Emissions (Project – Existing)	**1,986.98**			

Source: CalEEMod™ model output, See Appendices 3.1 through 3.4 for detailed model outputs.

3.8 GREENHOUSE GAS EMISSIONS FINDINGS AND RECOMMENDATIONS

GHG Impact #1: The Project would generate direct or indirect GHG emission that would result in a significant impact on the environment

A numerical threshold for determining the significance of GHG emissions in the SCAB has not been established by the SCAQMD for Projects where it is not the lead agency. As an interim threshold based on guidance provided in the CAPCOA *CEQA and Climate Change* handbook, the City has opted to use a non-zero threshold approach based on Approach 2 of the handbook. Threshold 2.5 (Unit-Based Thresholds Based on Market Capture) establishes a numerical threshold based on capture of approximately 90 percent of emissions from future development. The latest threshold developed by SCAQMD using this method is 3,000 $MTCO_2e$ per year for all projects (49).

As shown on Table 3-5, the Project would generate an incremental impact of approximately 1,986.98 $MTCO_2e$ per year. As such, the Project would not exceed the SCAQMD's recommended numeric threshold of 3,000 $MTCO_2e$ if it were applied. Thus, project-related emissions would not have a significant direct or indirect impact on GHG and climate change and no mitigation or further analysis is required.

GHG Impact #2: The Project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

The Project would comply with a number of regulations that would reduce GHG emissions as identified in Section 2.7 of this GHGA. It should be noted that a majority of the regulations are

subsets of AB 32 and SB 32. As such, the Project's consistency with AB 32 and SB 32 are discussed below.

2008 Scoping Plan Consistency

ARB's *Scoping Plan* identifies strategies to reduce California's GHG emissions in support of AB32 which requires the State to reduce its GHG emissions to 1990 levels by 2020. Many of the strategies identified in the Scoping Plan are not applicable at the project level, such as long-term technological improvements to reduce emissions from vehicles. Some measures are applicable and supported by the project, such as energy efficiency. Finally, while some measures are not directly applicable, the project would not conflict with their implementation. Reduction measures are grouped into 18 action categories, as follows:

1. **California Cap-and-Trade Program Linked to Western Climate Initiative Partner Jurisdictions.** Implement a broad-based California cap-and-trade program to provide a firm limit on emissions. Link the California cap–and-trade program with other Western Climate Initiative Partner programs to create a regional market system to achieve greater environmental and economic benefits for California.[11] Ensure California's program meets all applicable AB 32 requirements for market-based mechanisms.
2. **California Light-Duty Vehicle GHG Standards.** Implement adopted Pavley standards and planned second phase of the program. Align zero-emission vehicle, alternative and renewable fuel and vehicle technology programs with long-term climate change goals.
3. **Energy Efficiency.** Maximize energy efficiency building and appliance standards, and pursue additional efficiency efforts including new technologies, and new policy and implementation mechanisms. Pursue comparable investment in energy efficiency from all retail providers of electricity in California (including both investor-owned and publicly owned utilities).
4. **Renewables Portfolio Standards.** Achieve 33 percent renewable energy mix statewide.
5. **Low Carbon Fuel Standard.** Develop and adopt the Low Carbon Fuel Standard.
6. **Regional Transportation-Related GHG Targets.** Develop regional GHG emissions reduction targets for passenger vehicles.
7. **Vehicle Efficiency Measures.** Implement light-duty vehicle efficiency measures.
8. **Goods Movement.** Implement adopted regulations for the use of shore power for ships at berth. Improve efficiency in goods movement activities.
9. **Million Solar Roofs Program.** Install 3,000 megawatts of solar-electric capacity under California's existing solar programs.
10. **Medium- and Heavy-Duty Vehicles.** Adopt medium- (MD) and heavy-duty (HD) vehicle efficiencies. Aerodynamic efficiency measures for HD trucks pulling trailers 53-feet or longer that include improvements in trailer aerodynamics and use of rolling resistance tires were adopted in 2008 and went into effect in 2010.[12] Future, yet to be determined improvements, includes hybridization of MD and HD trucks.

[11] California Air Resources Board. California GHG Emissions – Forecast (2002-2020). October 2010
[12] California Air Resources Board. Scoping Plan Measures Implementation Timeline. October 2010

11. **Industrial Emissions.** Require assessment of large industrial sources to determine whether individual sources within a facility can cost-effectively reduce GHG emissions and provide other pollution reduction co-benefits. Reduce GHG emissions from fugitive emissions from oil and gas extraction and gas transmission. Adopt and implement regulations to control fugitive methane emissions and reduce flaring at refineries.
12. **High Speed Rail.** Support implementation of a high-speed rail system.
13. **Green Building Strategy.** Expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings.
14. **High Global Warming Potential Gases.** Adopt measures to reduce high warming global potential gases.
15. **Recycling and Waste.** Reduce methane emissions at landfills. Increase waste diversion, composting and other beneficial uses of organic materials, and mandate commercial recycling. Move toward zero-waste.
16. **Sustainable Forests.** Preserve forest sequestration and encourage the use of forest biomass for sustainable energy generation. The 2020 target for carbon sequestration is 5 million MTCO2E/YR.
17. **Water.** Continue efficiency programs and use cleaner energy sources to move and treat water.
18. **Agriculture.** In the near-term, encourage investment in manure digesters and at the five-year Scoping Plan update determine if the program should be made mandatory by 2020.

Table 3-6 summarizes the project's consistency with the State Scoping Plan. As summarized, the project will not conflict with any of the provisions of the Scoping Plan and in fact supports seven of the action categories through energy efficiency, water conservation, recycling, and landscaping.

TABLE 3-6: 2008 SCOPING PLAN CONSISTENCY SUMMARY

Action	Supporting Measures[13]	Consistency
Cap-and-Trade Program	--	Not applicable. These programs involve capping emissions from electricity generation, industrial facilities, and broad scoped fuels. Caps do not directly affect commercial projects.
Light-Duty Vehicle Standards	T-1	Not applicable. While these are CARB-enforced measures that are not directly applicable to the proposed Project, vehicles that access the Project are required to comply with the standards and will comply with this strategy.
Energy Efficiency	E-1	Consistent. The Project will include a variety of building, water, and solid waste efficiencies consistent with the most current CALGreen requirements.
	E-2	
	CR-1	
	CR-2	
Renewables Portfolio Standard	E-3	Not applicable. Establishes the minimum statewide renewable energy mix.

[13] Supporting measures can be found at the following link: http://www.arb.ca.gov/cc/scopingplan/2013_update/appendix_b.pdf

Action	Supporting Measures[13]	Consistency
Low Carbon Fuel Standard	T-2	Not applicable. Establishes reduced carbon intensity of transportation fuels.
Regional Transportation-Related GHG Targets	T-3	Not applicable. This is a statewide measure and is not within the purview of this Project.
Vehicle Efficiency Measures	T-4	Not applicable. Identifies measures such as minimum tire-fuel efficiency, lower friction oil, and reduction in air conditioning use.
Goods Movement	T-5	Not applicable. Identifies measures to improve goods movement efficiencies such as advanced combustion strategies, friction reduction, waste heat recovery, and electrification of accessories. While these measures are not directly applicable to the Project, any commercial activity associated with Goods Movement would be required to comply with these measures as adopted. As such, the proposed Project would not interfere with their implementation.
	T-6	
Million Solar Roofs (MSR) Program	E-4	Consistent. The MSR program sets a goal for use of solar systems throughout the state as a whole. While the Project currently does not include solar energy generation, the building roof structure will be designed to support solar panels in the future, consistent with Title 24 requirements.
Medium- & Heavy-Duty Vehicles	T-7	Not applicable. MD and HD trucks and trailers for industrial uses are be subject to aerodynamic and hybridization requirements as established by CARB; the proposed Project would interfere with implementation of these requirements and programs.
	T-8	
Industrial Emissions	I-1	Not applicable. These measures are applicable to large industrial facilities (> 500,000 $MTCO_2e$/yr) and other intensive uses such as refineries.
	I-2	
	I-3	
	I-4	
	I-5	
High Speed Rail	T-9	Not applicable. Supports increased mobility choice.
Green Building Strategy	GB-1	Consistent. The Project will include a variety of building, water, and solid waste efficiencies consistent with the current CALGreen requirements.

Action	Supporting Measures[13]	Consistency
High Global Warming Potential Gases	H-1	Not applicable. The proposed Project are not substantial sources of high GWP emissions and will comply with any future changes in air conditioning, fire protection suppressant, and other requirements.
	H-2	
	H-3	
	H-4	
	H-5	
	H-6	
	H-7	
Recycling and Waste	RW-1	Consistent. The Project will be required recycle a minimum of 65 percent from construction activities and Project operations per State and City requirements.
	RW-2	
	RW-3	
Sustainable Forests	F-1	Consistent. The Project will increase carbon sequestration by increasing on-site trees per the project landscaping plan.
Water	W-1	Consistent. The Project will include use of low-flow fixtures and efficient landscaping per State requirements.
	W-2	
	W-3	
	W-4	
	W-5	
	W-6	
Agriculture	A-1	Not applicable. The Project is not an agricultural use.

SB 32/2017 Scoping Plan Consistency

The 2017 Scoping Plan Update reflects the 2030 target of a 40 percent reduction below 1990 levels, set by Executive Order B-30-15 and codified by SB 32. Table 3-7 summarizes the project's consistency with the 2017 Scoping Plan. As summarized, the project will not conflict with any of the provisions of the Scoping Plan and in fact supports seven of the action categories.

TABLE 3-7: 2017 SCOPING PLAN CONSISTENCY SUMMARY[14]

Action	Responsible Parties	Consistency
Implement SB 350 by 2030		
Increase the Renewables Portfolio Standard to 50 percent of retail sales by 2030 and ensure grid reliability.	CPUC, CEC, CARB	Consistent. This measure is not directly applicable to development projects, but the proposed Project would use energy from Southern California Edison, which has committed to diversify its portfolio of energy sources by increasing energy from wind and solar sources.

[14] Measures can be found at the following link: https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf

Action	Responsible Parties	Consistency
Establish annual targets for statewide energy efficiency savings and demand reduction that will achieve a cumulative doubling of statewide energy efficiency savings in electricity and natural gas end uses by 2030.		Consistent. Although this measure is directed towards policymakers, the proposed Project would be designed and constructed to implement the energy efficiency measures for new commercial developments and would include several measures designed to reduce energy consumption.
Reduce GHG emissions in the electricity sector through the implementation of the above measures and other actions as modeled in Integrated Resource Planning (IRP) to meet GHG emissions reductions planning targets in the IRP process. Load-serving entities and publicly- owned utilities meet GHG emissions reductions planning targets through a combination of measures as described in IRPs.		Consistent. The proposed Project would be designed and constructed to implement the energy efficiency measures, where applicable by including several measures designed to reduce energy consumption. The proposed Project includes energy efficient field lighting and fixtures that meet the current Title 24 Standards throughout the Project Site and would be a modern development with energy efficient boilers, heaters, and air conditioning systems.
Implement Mobile Source Strategy (Cleaner Technology and Fuels)		
At least 1.5 million zero emission and plug-in hybrid light-duty electric vehicles by 2025.	CARB, California State Transportation Agency (CalSTA), Strategic Growth Council (SGC), California Department of Transportation (Caltrans), CEC, OPR, Local Agencies	Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.
At least 4.2 million zero emission and plug-in hybrid light-duty electric vehicles by 2030.		Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.
Further increase GHG stringency on all light-duty vehicles beyond existing Advanced Clean cars regulations.		Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.
Medium- and Heavy-Duty GHG Phase 2.		Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.
Innovative Clean Transit: Transition to a suite of to-be-determined innovative clean transit options. Assumed 20 percent of new urban buses purchased beginning in 2018 will be zero emission buses with the penetration of zero-emission technology ramped up to 100 percent of new sales in 2030. Also, new natural gas buses, starting in 2018, and diesel buses, starting in 2020, meet the optional heavy-duty low-NO_X standard.		Not applicable. This measure is not within the purview of this Project.

Action	Responsible Parties	Consistency
Last Mile Delivery: New regulation that would result in the use of low NO_X or cleaner engines and the deployment of increasing numbers of zero-emission trucks primarily for class 3-7 last mile delivery trucks in California. This measure assumes ZEVs comprise 2.5 percent of new Class 3–7 truck sales in local fleets starting in 2020, increasing to 10 percent in 2025 and remaining flat through 2030.		Not applicable. This Project is not responsible for implementation of SB 375 and would therefore not conflict with this measure.
Further reduce VMT through continued implementation of SB 375 and regional Sustainable Communities Strategies; forthcoming statewide implementation of SB 743; and potential additional VMT reduction strategies not specified in the Mobile Source Strategy but included in the document "Potential VMT Reduction Strategies for Discussion."		Not applicable. This Project is not responsible for implementation of SB 375 and would therefore not conflict with this measure.
Increase stringency of SB 375 Sustainable Communities Strategy (2035 targets).	CARB	Not applicable. The Project is not within the purview of SB 375 and would therefore not conflict with this measure.
By 2019, adjust performance measures used to select and design transportation facilities		
Harmonize project performance with emissions reductions and increase competitiveness of transit and active transportation modes (e.g. via guideline documents, funding programs, project selection, etc.).	CalSTA, SGC, OPR, CARB, Governor's Office of Business and Economic Development (GO-Biz), California Infrastructure and Economic Development Bank (IBank), Department of Finance (DOF), California Transportation Commission (CTC), Caltrans	Not applicable. Although this is directed towards CARB and Caltrans, the proposed Project would be designed to promote and support pedestrian activity on-site and in the Project Site area. The Project Site is within proximity to residential neighborhoods.
By 2019, develop pricing policies to support low-GHG transportation (e.g. low-emission	CalSTA, Caltrans,	Not applicable. Although this measure is directed towards policymakers, the proposed Project would comply with AB

Action	Responsible Parties	Consistency
vehicle zones for heavy duty, road user, parking pricing, transit discounts).	CTC, OPR, SGC, CARB	939, which sets a statewide policy that not less than 65 percent of solid waste generated be source reduced, recycled, or composted. Additionally, the proposed Project would be required to have a recycling program and recycling collection. During construction, the proposed Project shall recycle and reuse construction and demolition waste per City Solid Waste procedures.
Implement California Sustainable Freight Action Plan		
Improve freight system efficiency.	CalSTA, CalEPA, CNRA, CARB, Caltrans, CEC, GO-Biz	When adopted, this measure would apply to all trucks accessing the Project site, this may include existing trucks or new trucks that are part of the statewide goods movement sector.
Deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize both zero and near-zero emission freight vehicles and equipment powered by renewable energy by 2030.		Not applicable. This measure is not within the purview of this Project.
Adopt a Low Carbon Fuel Standard with a Carbon Intensity reduction of 18 percent.	CARB	LCFS, with an increased stringency (18 percent by 2030). When adopted, this measure would apply to all fuel purchased and used by the Project in the state.
Implement the Short-Lived Climate Pollutant Strategy by 2030		
40 percent reduction in methane and hydrofluorocarbon emissions below 2013 levels.	CARB, CalRecycle, CDFA, SWRCB, Local Air Districts	When adopted, the Project would be required to comply with this measure and reduce SLPS accordingly.
50 percent reduction in black carbon emissions below 2013 levels.		Not applicable. This measure is not within the purview of this Project.
By 2019, develop regulations and programs to support organic waste landfill reduction goals in the SLCP and SB 1383.	CARB, CalRecycle, CDFA SWRCB, Local Air Districts	Not applicable. This measure is not within the purview of this Project.

Action	Responsible Parties	Consistency
Implement the post-2020 Cap-and-Trade Program with declining annual caps.	CARB	When adopted, the Project would be required to comply with the Cap-and-Trade Program if it generates emissions from sectors covered by Cap-and-Trade.
By 2018, develop Integrated Natural and Working Lands Implementation Plan to secure California's land base as a net carbon sink		
Protect land from conversion through conservation easements and other incentives.	CNRA, Departments Within CDFA, CalEPA, CARB	Not applicable. This measure is not within the purview of this Project.
Increase the long-term resilience of carbon storage in the land base and enhance sequestration capacity		Not applicable. This measure is not within the purview of this Project.
Utilize wood and agricultural products to increase the amount of carbon stored in the natural and built environments		Not applicable. This measure is not within the purview of this Project.
Establish scenario projections to serve as the foundation for the Implementation Plan		Not applicable. This measure is not within the purview of this Project.
Establish a carbon accounting framework for natural and working lands as described in SB 859 by 2018	CARB	Not applicable. This measure is not within the purview of this Project.
Implement Forest Carbon Plan	CNRA, California Department of Forestry and Fire Protection (CAL FIRE), CalEPA and Departments Within	Not applicable. This measure is not within the purview of this Project.
Identify and expand funding and financing mechanisms to support GHG reductions across all sectors.	State Agencies & Local Agencies	Not applicable. This measure is not within the purview of this Project.

As shown above, the Project would not conflict with any of the 2017 Scoping Plan elements as any regulations adopted would apply directly or indirectly to the Project. Further, recent studies

show that the State's existing and proposed regulatory framework will allow the State to reduce its GHG emissions level to 40 percent below 1990 levels by 2030 (33).

According to research conducted by the LBNL and supported by the CARB, California, under its existing and proposed GHG reduction policies, is on track to meet the 2020 reduction targets under AB 32 and could achieve the 2030 goals under SB 32. CALGAPS simulates GHG and criteria pollutant emissions in California from 2010 to 2050 in accordance to existing and future GHG-reducing policies. This model showed that GHG emissions through 2020 could range from 317 to 415 $MTCO_2e$ per year, "indicating that existing state policies will likely allow California to meet its target [of 2020 levels under AB 32]." CALGAPS also showed that by 2030, emissions could range from 211 to 428 $MTCO_2e$ per year, indicating that "even if all modeled policies are not implemented, reductions could be sufficient to reduce emissions 40 percent below the 1990 level [of SB 32]." CALGAPS analyzed emissions through 2050 even though it did not generally account for policies that might be put in place after 2030. Though the research indicated that the emissions would not meet the state's 80 percent reduction goal by 2050, various combinations of policies could allow California's cumulative emissions to remain very low through 2050 (33) (34).

The project applicant would not actively interfere with any future City-mandated, state-mandated, or federally-mandated retrofit obligations enacted or promulgated to legally require development City-wide, state-wide, or nation-wide to assist in meeting state-adopted greenhouse gas emissions reduction targets, including that established under Executive Order S-3-05, Executive Order B-30-15, or SB 32.

The Project does not interfere with the state's implementation of (i) Executive Order B-30-15 and SB 32's target of reducing statewide GHG emissions to 40% below 1990 levels by 2030 or (ii) Executive Order S-3-05's target of reducing statewide GHG emissions to 80% below 1990 levels by 2050 because it does not interfere with the state's implementation of GHG reduction plans described in the CARB's Updated Scoping Plan, including the state providing for 12,000 MW of renewable distributed generation by 2020, the California Building Commission mandating net zero energy homes in the building code after 2020, or existing building retrofits under AB 758. Therefore, the project's impacts on greenhouse gas emissions in the 2030 and 2050 horizon years are less than significant.

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5 CERTIFICATION

The contents of this GHG study report represent an accurate depiction of the GHG impacts associated with the proposed Pioneer Boulevard Development. The information contained in this GHG report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

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EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May, 2010

Bachelor of Arts in Environmental Analysis and Design
University of California, Irvine • June, 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June, 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August, 2007
AB2588 Regulatory Standards – Trinity Consultants • November, 2006
Air Dispersion Modeling – Lakes Environmental • June, 2006

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APPENDIX 3.1:

CALEEMOD ANNUAL CONSTRUCTION EMISSIONS MODEL OUTPUTS

Pioneer Boulevard Development (Construction - Unmitigated)

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	163.52	1000sqft	3.75	163,518.00	0
Other Asphalt Surfaces	136.53	1000sqft	3.13	136,533.00	0
Other Non-Asphalt Surfaces	39.09	1000sqft	0.90	39,093.00	0
Parking Lot	271.00	Space	0.55	24,137.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area is roughly 8.34 acres.

Construction Phase - Construction expected to being Summer 2020 and end Summer 2021.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment -

Demolition -

Grading - Total Acres Graded based on Construction Schedule and Equipment List. Site Preparation will disturb 1.5 acres per day and Grading will disturb 1.0 acres per day.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
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tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
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tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	5.75	0.00
tblEnergyUse	NT24NG	4.45	0.00

tblEnergyUse	T24E	2.25	0.00
tblEnergyUse	T24NG	13.65	0.00
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tblLandUse	LandUseSquareFeet	39,090.00	39,093.00
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tblOffRoadEquipment	UsageHours	7.00	8.00
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tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	3.3630e-003	3.1500e-003
tblVehicleEF	LDT1	7.7200e-004	6.4900e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	7.0440e-003	5.0890e-003
tblVehicleEF	LDT2	7.1880e-003	0.07
tblVehicleEF	LDT2	0.84	1.06
tblVehicleEF	LDT2	1.49	2.74
tblVehicleEF	LDT2	382.63	349.24
tblVehicleEF	LDT2	81.02	71.19
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.8330e-003	3.4550e-003
tblVehicleEF	LDT2	8.3500e-004	7.0500e-004

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	7.5350e-003	5.4660e-003
tblVehicleEF	LDT2	6.3730e-003	0.06
tblVehicleEF	LDT2	0.94	1.18
tblVehicleEF	LDT2	1.28	2.34
tblVehicleEF	LDT2	402.38	363.41
tblVehicleEF	LDT2	81.02	70.44
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	4.0320e-003	3.5950e-003
tblVehicleEF	LDT2	8.3200e-004	6.9700e-004
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LDT2	6.8940e-003	4.9780e-003
tblVehicleEF	LDT2	7.3550e-003	0.07
tblVehicleEF	LDT2	0.81	1.02
tblVehicleEF	LDT2	1.53	2.82
tblVehicleEF	LDT2	376.06	344.49
tblVehicleEF	LDT2	81.02	71.35
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LDT2	3.7670e-003	3.4080e-003
tblVehicleEF	LDT2	8.3600e-004	7.0600e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.8640e-003	5.6690e-003
tblVehicleEF	LHD1	0.01	6.0180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.71
tblVehicleEF	LHD1	2.81	1.13
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.37
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.31	0.90
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.55

tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2200e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6820e-003
tblVehicleEF	LHD1	0.01	6.1380e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.92	0.72
tblVehicleEF	LHD1	2.68	1.08
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.71
tblVehicleEF	LHD1	33.50	12.28
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.23	0.84
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004

tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0030e-003	6.5590e-003
tblVehicleEF	LHD1	3.8500e-004	1.2200e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6670e-003
tblVehicleEF	LHD1	0.01	5.9900e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.70
tblVehicleEF	LHD1	2.82	1.14
tblVehicleEF	LHD1	9.00	9.05

tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.38
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.28	0.88
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2300e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.09	0.07

tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	4.2390e-003	4.0130e-003
tblVehicleEF	LHD2	4.8300e-003	4.2070e-003
tblVehicleEF	LHD2	9.6290e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.43	0.76
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.60
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.93	1.09
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.35

tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0220e-003
tblVehicleEF	LHD2	4.8960e-003	4.2550e-003
tblVehicleEF	LHD2	9.2930e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.37	0.73
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.95
tblVehicleEF	LHD2	28.08	9.54
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.88	1.03
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003

tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0600e-004	9.4000e-005
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0110e-003
tblVehicleEF	LHD2	4.8130e-003	4.1960e-003
tblVehicleEF	LHD2	9.6860e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.40	0.48
tblVehicleEF	LHD2	1.44	0.77
tblVehicleEF	LHD2	13.72	13.73

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tblVehicleEF	LHD2	0.92	1.07
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.13	0.06
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tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
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tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.06	0.06

tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	MCY	0.50	0.37
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.08	19.33
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	182.36	218.96
tblVehicleEF	MCY	45.23	60.14
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.49	2.50
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.2100e-003	2.1670e-003
tblVehicleEF	MCY	6.7000e-004	5.9500e-004
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	3.08	3.10
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.24	1.99

tblVehicleEF	MCY	0.49	0.36
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.59	18.81
tblVehicleEF	MCY	8.86	7.79
tblVehicleEF	MCY	182.36	217.93
tblVehicleEF	MCY	45.23	58.33
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.2010e-003	2.1570e-003
tblVehicleEF	MCY	6.5100e-004	5.7700e-004
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	3.02	3.03
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.51	0.37
tblVehicleEF	MCY	0.15	0.24

tblVehicleEF	MCY	19.10	19.35
tblVehicleEF	MCY	9.72	8.59
tblVehicleEF	MCY	182.36	219.02
tblVehicleEF	MCY	45.23	60.39
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	2.49	2.51
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	2.2110e-003	2.1670e-003
tblVehicleEF	MCY	6.7300e-004	5.9800e-004
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	3.09	3.11
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	7.0560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.48	1.33
tblVehicleEF	MDV	2.84	3.27

tblVehicleEF	MDV	515.44	429.05
tblVehicleEF	MDV	107.59	87.05
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.22	0.44
tblVehicleEF	MDV	5.1660e-003	4.2420e-003
tblVehicleEF	MDV	1.1260e-003	8.6100e-004
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.01	7.5220e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.63	1.46
tblVehicleEF	MDV	2.45	2.79
tblVehicleEF	MDV	541.84	444.43
tblVehicleEF	MDV	107.59	86.14

tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.39
tblVehicleEF	MDV	5.4320e-003	4.3940e-003
tblVehicleEF	MDV	1.1190e-003	8.5200e-004
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.43
tblVehicleEF	MDV	0.01	6.9160e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.43	1.28
tblVehicleEF	MDV	2.92	3.36
tblVehicleEF	MDV	506.79	424.01
tblVehicleEF	MDV	107.59	87.24
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	2.1880e-003	2.0180e-003

tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.23	0.45
tblVehicleEF	MDV	5.0790e-003	4.1920e-003
tblVehicleEF	MDV	1.1270e-003	8.6300e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.61	0.31
tblVehicleEF	MH	6.11	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.32	3.91
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0200e-004	0.00
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tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.03	3.3440e-003
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tblVehicleEF	MH	1.22	3.69
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	6.9500e-004	0.00
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tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.59	0.31
tblVehicleEF	MH	6.16	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.30	3.84
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

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tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
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tblVehicleEF	MH	0.14	0.08
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tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MHD	0.02	4.2430e-003
tblVehicleEF	MHD	4.8740e-003	6.7470e-003
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tblVehicleEF	MHD	0.37	0.38
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.44	1.34
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tblVehicleEF	MHD	1,139.95	1,077.13
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tblVehicleEF	MHD	3.6300e-004	1.8180e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	3.4700e-004	1.7400e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.3390e-003	6.3300e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2800e-004	1.1400e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.43	0.07
tblVehicleEF	MHD	0.02	4.0190e-003
tblVehicleEF	MHD	4.9460e-003	6.7970e-003
tblVehicleEF	MHD	0.05	0.01

tblVehicleEF	MHD	0.27	0.31
tblVehicleEF	MHD	0.37	0.63
tblVehicleEF	MHD	6.12	1.27
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tblVehicleEF	MHD	1,139.95	1,077.14
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tblVehicleEF	MHD	1.11	2.10
tblVehicleEF	MHD	3.0600e-004	1.5350e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	2.9300e-004	1.4690e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	MHD	1.4170e-003	6.4400e-004
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tblVehicleEF	MHD	7.2200e-004	1.1300e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
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tblVehicleEF	MHD	0.03	0.03

tblVehicleEF	MHD	1.1660e-003	5.9000e-004
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tblVehicleEF	MHD	0.02	4.5650e-003
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tblVehicleEF	MHD	0.37	0.62
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tblVehicleEF	MHD	4.4200e-004	2.2090e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	4.2300e-004	2.1140e-003
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tblVehicleEF	MHD	7.7200e-004	1.1600e-004
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tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.14

tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.2320e-003	6.1600e-004
tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
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tblVehicleEF	OBUS	1.8000e-004	2.2610e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.7300e-004	2.1630e-003
tblVehicleEF	OBUS	7.8190e-003	0.04

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tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
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tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.06	0.11
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tblVehicleEF	OBUS	0.36	0.12
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9100e-004	1.9600e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9090e-003
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tblVehicleEF	OBUS	8.1890e-003	0.04
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tblVehicleEF	OBUS	2.1000e-004	2.6260e-003
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tblVehicleEF	SBUS	0.03	0.03
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tblVehicleEF	SBUS	0.03	8.9370e-003
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tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.4260e-003
tblVehicleEF	SBUS	0.06	5.8400e-003
tblVehicleEF	SBUS	7.73	2.78
tblVehicleEF	SBUS	0.82	0.73
tblVehicleEF	SBUS	6.01	0.73
tblVehicleEF	SBUS	1,199.32	365.47
tblVehicleEF	SBUS	1,098.65	1,119.97
tblVehicleEF	SBUS	52.57	5.25
tblVehicleEF	SBUS	10.38	3.52
tblVehicleEF	SBUS	4.37	4.95
tblVehicleEF	SBUS	9.1580e-003	4.0280e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	8.7620e-003	3.8540e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	0.94	0.33
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.35	0.03
tblVehicleEF	SBUS	0.01	3.4870e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3100e-004	5.2000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.3040e-003
tblVehicleEF	SBUS	0.07	6.8160e-003
tblVehicleEF	SBUS	8.03	2.88

tblVehicleEF	SBUS	0.81	0.72
tblVehicleEF	SBUS	7.81	0.95
tblVehicleEF	SBUS	1,073.80	343.43
tblVehicleEF	SBUS	1,098.65	1,119.94
tblVehicleEF	SBUS	52.57	5.62
tblVehicleEF	SBUS	9.61	3.32
tblVehicleEF	SBUS	4.57	5.17
tblVehicleEF	SBUS	0.01	5.7950e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	5.5450e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
tblVehicleEF	SBUS	0.03	9.5230e-003
tblVehicleEF	SBUS	0.95	0.33
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.2780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6100e-004	5.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
tblVehicleEF	SBUS	0.03	9.5230e-003

tblVehicleEF	SBUS	1.37	0.47
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.45	0.04
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.01	39.42
tblVehicleEF	UBUS	10.46	0.95
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.70
tblVehicleEF	UBUS	9.09	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.79	0.06
tblVehicleEF	UBUS	9.6900e-003	2.3330e-003

tblVehicleEF	UBUS	1.2560e-003	1.1600e-004
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.87	0.07
tblVehicleEF	UBUS	2.52	5.87
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.06	39.42
tblVehicleEF	UBUS	9.07	0.83
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.50
tblVehicleEF	UBUS	8.56	1.21
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	0.81	0.09
tblVehicleEF	UBUS	0.02	0.07

tblVehicleEF	UBUS	0.73	0.06
tblVehicleEF	UBUS	9.6910e-003	2.3330e-003
tblVehicleEF	UBUS	1.2320e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	3.42	5.99
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.00	39.42
tblVehicleEF	UBUS	10.67	0.97
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.73
tblVehicleEF	UBUS	8.92	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004

tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	9.6890e-003	2.3330e-003
tblVehicleEF	UBUS	1.2600e-003	1.1600e-004
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.88	0.07
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	37,814,000.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2501	2.5105	1.8718	4.8100e-003	0.3749	0.1056	0.4805	0.1311	0.0986	0.2297	0.0000	436.8726	436.8726	0.0680	0.0000	438.5715
2021	0.5976	1.7489	1.7617	4.1800e-003	0.1380	0.0755	0.2135	0.0372	0.0709	0.1081	0.0000	374.9663	374.9663	0.0540	0.0000	376.3171
Maximum	**0.5976**	**2.5105**	**1.8718**	**4.8100e-003**	**0.3749**	**0.1056**	**0.4805**	**0.1311**	**0.0986**	**0.2297**	**0.0000**	**436.8726**	**436.8726**	**0.0680**	**0.0000**	**438.5715**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2501	2.5105	1.8718	4.8100e-003	0.2240	0.1056	0.3297	0.0722	0.0986	0.1708	0.0000	436.8723	436.8723	0.0680	0.0000	438.5712
2021	0.5976	1.7489	1.7617	4.1800e-003	0.1380	0.0755	0.2135	0.0372	0.0709	0.1081	0.0000	374.9661	374.9661	0.0540	0.0000	376.3169
Maximum	**0.5976**	**2.5105**	**1.8718**	**4.8100e-003**	**0.2240**	**0.1056**	**0.3297**	**0.0722**	**0.0986**	**0.1708**	**0.0000**	**436.8723**	**436.8723**	**0.0680**	**0.0000**	**438.5712**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**29.41**	**0.00**	**21.73**	**35.01**	**0.00**	**17.44**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Pioneer Boulevard Development (Construction - Unmitigated) - South Coast AQMD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2020	8-31-2020	1.3837	1.3837
2	9-1-2020	11-30-2020	0.9954	0.9954
3	12-1-2020	2-28-2021	0.9256	0.9256
4	3-1-2021	5-31-2021	0.9120	0.9120
5	6-1-2021	8-31-2021	0.8389	0.8389
		Highest	1.3837	1.3837

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6831	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.6831**	**7.0000e-005**	**7.8200e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0151**	**0.0151**	**4.0000e-005**	**0.0000**	**0.0162**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6831	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.6831**	**7.0000e-005**	**7.8200e-003**	**0.0000**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0151**	**0.0151**	**4.0000e-005**	**0.0000**	**0.0162**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Pioneer Boulevard Development (Construction - Unmitigated) - South Coast AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/26/2020	5	20	
2	Site Preparation	Site Preparation	6/27/2020	7/10/2020	5	10	
3	Grading	Grading	7/11/2020	8/7/2020	5	20	
4	Building Construction	Building Construction	8/8/2020	6/25/2021	5	230	
5	Paving	Paving	6/26/2021	7/23/2021	5	20	
6	Architectural Coating	Architectural Coating	6/26/2021	8/20/2021	5	40	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 4.58

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 245,277; Non-Residential Outdoor: 81,759; Striped Parking Area: 11,986 (Architectural Coating – sqft)

OffRoad Equipment

Pioneer Boulevard Development (Construction - Unmitigated) - South Coast AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	717.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,188.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	153.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	31.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0776	0.0000	0.0776	0.0118	0.0000	0.0118	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**	**0.0776**	**0.0166**	**0.0942**	**0.0118**	**0.0154**	**0.0272**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2386**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7600e-003	0.1006	0.0201	2.8000e-004	6.1600e-003	3.2000e-004	6.4800e-003	1.6900e-003	3.0000e-004	1.9900e-003	0.0000	27.0538	27.0538	1.8600e-003	0.0000	27.1005
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	5.1000e-004	5.6800e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4815	1.4815	4.0000e-005	0.0000	1.4826
Total	**3.4300e-003**	**0.1011**	**0.0257**	**3.0000e-004**	**7.8100e-003**	**3.3000e-004**	**8.1400e-003**	**2.1300e-003**	**3.1000e-004**	**2.4400e-003**	**0.0000**	**28.5353**	**28.5353**	**1.9000e-003**	**0.0000**	**28.5830**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0303	0.0000	0.0303	4.5800e-003	0.0000	4.5800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**	**0.0303**	**0.0166**	**0.0469**	**4.5800e-003**	**0.0154**	**0.0200**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2385**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7600e-003	0.1006	0.0201	2.8000e-004	6.1600e-003	3.2000e-004	6.4800e-003	1.6900e-003	3.0000e-004	1.9900e-003	0.0000	27.0538	27.0538	1.8600e-003	0.0000	27.1005
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	5.1000e-004	5.6800e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4815	1.4815	4.0000e-005	0.0000	1.4826
Total	**3.4300e-003**	**0.1011**	**0.0257**	**3.0000e-004**	**7.8100e-003**	**3.3000e-004**	**8.1400e-003**	**2.1300e-003**	**3.1000e-004**	**2.4400e-003**	**0.0000**	**28.5353**	**28.5353**	**1.9000e-003**	**0.0000**	**28.5830**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0983**	**0.0110**	**0.1093**	**0.0505**	**0.0101**	**0.0606**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	3.1000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8889	0.8889	3.0000e-005	0.0000	0.8895
Total	**4.0000e-004**	**3.1000e-004**	**3.4100e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8889**	**0.8889**	**3.0000e-005**	**0.0000**	**0.8895**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0383	0.0000	0.0383	0.0197	0.0000	0.0197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0383**	**0.0110**	**0.0493**	**0.0197**	**0.0101**	**0.0298**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	3.1000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8889	0.8889	3.0000e-005	0.0000	0.8895
Total	**4.0000e-004**	**3.1000e-004**	**3.4100e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8889**	**0.8889**	**3.0000e-005**	**0.0000**	**0.8895**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0714	0.0000	0.0714	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0588	26.0588	8.4300e-003	0.0000	26.2694
Total	**0.0243**	**0.2639**	**0.1605**	**3.0000e-004**	**0.0714**	**0.0127**	**0.0841**	**0.0343**	**0.0117**	**0.0461**	**0.0000**	**26.0588**	**26.0588**	**8.4300e-003**	**0.0000**	**26.2694**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5700e-003	0.1667	0.0332	4.6000e-004	0.0102	5.2000e-004	0.0107	2.8000e-003	5.0000e-004	3.3100e-003	0.0000	44.8256	44.8256	3.0900e-003	0.0000	44.9028
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	5.1000e-004	5.6800e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4815	1.4815	4.0000e-005	0.0000	1.4826
Total	**5.2400e-003**	**0.1672**	**0.0389**	**4.8000e-004**	**0.0119**	**5.3000e-004**	**0.0124**	**3.2400e-003**	**5.1000e-004**	**3.7600e-003**	**0.0000**	**46.3071**	**46.3071**	**3.1300e-003**	**0.0000**	**46.3854**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0278	0.0000	0.0278	0.0134	0.0000	0.0134	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0587	26.0587	8.4300e-003	0.0000	26.2694
Total	**0.0243**	**0.2639**	**0.1605**	**3.0000e-004**	**0.0278**	**0.0127**	**0.0406**	**0.0134**	**0.0117**	**0.0251**	**0.0000**	**26.0587**	**26.0587**	**8.4300e-003**	**0.0000**	**26.2694**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5700e-003	0.1667	0.0332	4.6000e-004	0.0102	5.2000e-004	0.0107	2.8000e-003	5.0000e-004	3.3100e-003	0.0000	44.8256	44.8256	3.0900e-003	0.0000	44.9028
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	5.1000e-004	5.6800e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4815	1.4815	4.0000e-005	0.0000	1.4826
Total	**5.2400e-003**	**0.1672**	**0.0389**	**4.8000e-004**	**0.0119**	**5.3000e-004**	**0.0124**	**3.2400e-003**	**5.1000e-004**	**3.7600e-003**	**0.0000**	**46.3071**	**46.3071**	**3.1300e-003**	**0.0000**	**46.3854**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1173	1.0738	0.9343	1.5000e-003		0.0621	0.0621		0.0583	0.0583	0.0000	129.0528	129.0528	0.0322	0.0000	129.8571
Total	**0.1173**	**1.0738**	**0.9343**	**1.5000e-003**		**0.0621**	**0.0621**		**0.0583**	**0.0583**	**0.0000**	**129.0528**	**129.0528**	**0.0322**	**0.0000**	**129.8571**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0105	0.3330	0.0825	7.9000e-004	0.0197	1.6300e-003	0.0213	5.6700e-003	1.5600e-003	7.2400e-003	0.0000	76.7370	76.7370	5.0400e-003	0.0000	76.8629
Worker	0.0355	0.0272	0.3013	8.7000e-004	0.0873	6.7000e-004	0.0880	0.0232	6.2000e-004	0.0238	0.0000	78.5787	78.5787	2.2500e-003	0.0000	78.6351
Total	**0.0460**	**0.3602**	**0.3838**	**1.6600e-003**	**0.1070**	**2.3000e-003**	**0.1093**	**0.0289**	**2.1800e-003**	**0.0310**	**0.0000**	**155.3157**	**155.3157**	**7.2900e-003**	**0.0000**	**155.4980**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1173	1.0738	0.9343	1.5000e-003		0.0621	0.0621		0.0583	0.0583	0.0000	129.0527	129.0527	0.0322	0.0000	129.8569
Total	**0.1173**	**1.0738**	**0.9343**	**1.5000e-003**		**0.0621**	**0.0621**		**0.0583**	**0.0583**	**0.0000**	**129.0527**	**129.0527**	**0.0322**	**0.0000**	**129.8569**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0105	0.3330	0.0825	7.9000e-004	0.0197	1.6300e-003	0.0213	5.6700e-003	1.5600e-003	7.2400e-003	0.0000	76.7370	76.7370	5.0400e-003	0.0000	76.8629
Worker	0.0355	0.0272	0.3013	8.7000e-004	0.0873	6.7000e-004	0.0880	0.0232	6.2000e-004	0.0238	0.0000	78.5787	78.5787	2.2500e-003	0.0000	78.6351
Total	**0.0460**	**0.3602**	**0.3838**	**1.6600e-003**	**0.1070**	**2.3000e-003**	**0.1093**	**0.0289**	**2.1800e-003**	**0.0310**	**0.0000**	**155.3157**	**155.3157**	**7.2900e-003**	**0.0000**	**155.4980**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1274	1.1812	1.1133	1.8100e-003		0.0646	0.0646		0.0606	0.0606	0.0000	156.3721	156.3721	0.0386	0.0000	157.3367
Total	**0.1274**	**1.1812**	**1.1133**	**1.8100e-003**		**0.0646**	**0.0646**		**0.0606**	**0.0606**	**0.0000**	**156.3721**	**156.3721**	**0.0386**	**0.0000**	**157.3367**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0108	0.3658	0.0907	9.5000e-004	0.0238	7.4000e-004	0.0246	6.8700e-003	7.0000e-004	7.5800e-003	0.0000	92.2874	92.2874	5.8400e-003	0.0000	92.4333
Worker	0.0402	0.0297	0.3359	1.0200e-003	0.1058	7.9000e-004	0.1066	0.0281	7.3000e-004	0.0288	0.0000	92.1161	92.1161	2.4700e-003	0.0000	92.1778
Total	**0.0509**	**0.3954**	**0.4266**	**1.9700e-003**	**0.1296**	**1.5300e-003**	**0.1311**	**0.0350**	**1.4300e-003**	**0.0364**	**0.0000**	**184.4035**	**184.4035**	**8.3100e-003**	**0.0000**	**184.6111**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1274	1.1812	1.1133	1.8100e-003		0.0646	0.0646		0.0606	0.0606	0.0000	156.3719	156.3719	0.0386	0.0000	157.3365
Total	**0.1274**	**1.1812**	**1.1133**	**1.8100e-003**		**0.0646**	**0.0646**		**0.0606**	**0.0606**	**0.0000**	**156.3719**	**156.3719**	**0.0386**	**0.0000**	**157.3365**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0108	0.3658	0.0907	9.5000e-004	0.0238	7.4000e-004	0.0246	6.8700e-003	7.0000e-004	7.5800e-003	0.0000	92.2874	92.2874	5.8400e-003	0.0000	92.4333
Worker	0.0402	0.0297	0.3359	1.0200e-003	0.1058	7.9000e-004	0.1066	0.0281	7.3000e-004	0.0288	0.0000	92.1161	92.1161	2.4700e-003	0.0000	92.1778
Total	**0.0509**	**0.3954**	**0.4266**	**1.9700e-003**	**0.1296**	**1.5300e-003**	**0.1311**	**0.0350**	**1.4300e-003**	**0.0364**	**0.0000**	**184.4035**	**184.4035**	**8.3100e-003**	**0.0000**	**184.6111**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	4.8200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0174**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
Total	**6.3000e-004**	**4.6000e-004**	**5.2300e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4335**	**1.4335**	**4.0000e-005**	**0.0000**	**1.4345**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	4.8200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0174**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
Total	**6.3000e-004**	**4.6000e-004**	**5.2300e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4335**	**1.4335**	**4.0000e-005**	**0.0000**	**1.4345**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3928					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8400e-003	0.0407	0.0485	8.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	6.8087	6.8087	4.7000e-004	0.0000	6.8204
Total	**0.3987**	**0.0407**	**0.0485**	**8.0000e-005**		**2.5100e-003**	**2.5100e-003**		**2.5100e-003**	**2.5100e-003**	**0.0000**	**6.8087**	**6.8087**	**4.7000e-004**	**0.0000**	**6.8204**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5800e-003	1.9100e-003	0.0216	7.0000e-005	6.8000e-003	5.0000e-005	6.8500e-003	1.8100e-003	5.0000e-005	1.8500e-003	0.0000	5.9251	5.9251	1.6000e-004	0.0000	5.9291
Total	**2.5800e-003**	**1.9100e-003**	**0.0216**	**7.0000e-005**	**6.8000e-003**	**5.0000e-005**	**6.8500e-003**	**1.8100e-003**	**5.0000e-005**	**1.8500e-003**	**0.0000**	**5.9251**	**5.9251**	**1.6000e-004**	**0.0000**	**5.9291**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3928					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8400e-003	0.0407	0.0485	8.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	6.8087	6.8087	4.7000e-004	0.0000	6.8204
Total	**0.3987**	**0.0407**	**0.0485**	**8.0000e-005**		**2.5100e-003**	**2.5100e-003**		**2.5100e-003**	**2.5100e-003**	**0.0000**	**6.8087**	**6.8087**	**4.7000e-004**	**0.0000**	**6.8204**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5800e-003	1.9100e-003	0.0216	7.0000e-005	6.8000e-003	5.0000e-005	6.8500e-003	1.8100e-003	5.0000e-005	1.8500e-003	0.0000	5.9251	5.9251	1.6000e-004	0.0000	5.9291
Total	**2.5800e-003**	**1.9100e-003**	**0.0216**	**7.0000e-005**	**6.8000e-003**	**5.0000e-005**	**6.8500e-003**	**1.8100e-003**	**5.0000e-005**	**1.8500e-003**	**0.0000**	**5.9251**	**5.9251**	**1.6000e-004**	**0.0000**	**5.9291**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Non-Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6831	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Unmitigated	0.6831	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0786					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6038					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.3000e-004	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Total	**0.6831**	**7.0000e-005**	**7.8200e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0151**	**0.0151**	**4.0000e-005**	**0.0000**	**0.0162**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0786					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6038					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.3000e-004	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Total	**0.6831**	**7.0000e-005**	**7.8200e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0151**	**0.0151**	**4.0000e-005**	**0.0000**	**0.0162**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.2:

CALEEMOD OPERATIONAL (PASSENGER CAR) EMISSIONS MODEL OUTPUTS

Pioneer Boulevard Development (Operations - Passenger Cars)

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	163.52	1000sqft	3.75	163,518.00	0
Other Asphalt Surfaces	136.53	1000sqft	3.13	136,533.00	0
Other Non-Asphalt Surfaces	39.09	1000sqft	0.90	39,093.00	0
Parking Lot	271.00	Space	0.55	24,137.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Pioneer Boulevard Development (Operations - Passenger Cars) - South Coast AQMD Air District, Annual

Project Characteristics -

Land Use - Total Project Area is roughly 8.34 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on in ITE 10th Edition and Trip Generation Memo provided by Project Applicant.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix broken down between LDA, LDT1, LDT2, and MDV vehicles.

Energy Use - The project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses due to lighting upgrades.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	3.10	2.17
tblEnergyUse	T24E	2.25	1.58
tblEnergyUse	T24NG	13.65	9.56
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.55	0.60
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.20	0.22
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.8510e-003	0.00
tblFleetMix	MCY	4.8170e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.2500e-004	0.00

tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.0700e-003	0.00
tblFleetMix	SBUS	7.0700e-004	0.00
tblFleetMix	UBUS	1.8770e-003	0.00
tblLandUse	LandUseSquareFeet	108,400.00	24,137.00
tblLandUse	LotAcreage	2.44	0.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.69	6.18
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.90	7.9880e-003
tblVehicleEF	HHD	4,950.31	1,194.39
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.19	6.50
tblVehicleEF	HHD	3.79	3.84
tblVehicleEF	HHD	0.02	9.3830e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	8.9770e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.67	0.48
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.79	0.55
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	HHD	0.71	0.03
tblVehicleEF	HHD	0.09	0.08

tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.96	6.03
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.75	7.5840e-003
tblVehicleEF	HHD	5,242.63	1,192.05
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.90	6.33
tblVehicleEF	HHD	3.59	3.63
tblVehicleEF	HHD	0.01	8.7460e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	8.3670e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
tblVehicleEF	HHD	0.64	0.50
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.07	2.0000e-006
tblVehicleEF	HHD	0.05	0.01

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3600e-004	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
tblVehicleEF	HHD	0.74	0.57
tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.81	0.02
tblVehicleEF	HHD	0.09	4.9680e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.70	6.30
tblVehicleEF	HHD	0.97	0.46
tblVehicleEF	HHD	2.92	8.0430e-003
tblVehicleEF	HHD	4,546.63	1,180.14
tblVehicleEF	HHD	1,610.72	1,429.60
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	21.21	6.63
tblVehicleEF	HHD	3.74	3.74
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	9.5750e-003
tblVehicleEF	HHD	0.03	0.03

tblVehicleEF	HHD	8.8180e-003	8.7430e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.73	0.45
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.85	0.51
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.12
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	LDA	5.2110e-003	3.1430e-003
tblVehicleEF	LDA	5.8420e-003	0.05
tblVehicleEF	LDA	0.65	0.74
tblVehicleEF	LDA	1.21	2.15
tblVehicleEF	LDA	275.32	274.11
tblVehicleEF	LDA	58.96	54.77
tblVehicleEF	LDA	0.05	0.04

tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDA	2.7580e-003	2.7120e-003
tblVehicleEF	LDA	6.1000e-004	5.4200e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	5.5820e-003	3.3870e-003
tblVehicleEF	LDA	5.1760e-003	0.05
tblVehicleEF	LDA	0.73	0.83
tblVehicleEF	LDA	1.04	1.84
tblVehicleEF	LDA	290.06	288.26
tblVehicleEF	LDA	58.96	54.19
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003

tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.9060e-003	2.8520e-003
tblVehicleEF	LDA	6.0700e-004	5.3600e-004
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	5.0990e-003	3.0730e-003
tblVehicleEF	LDA	5.9770e-003	0.05
tblVehicleEF	LDA	0.63	0.71
tblVehicleEF	LDA	1.25	2.21
tblVehicleEF	LDA	270.53	269.50
tblVehicleEF	LDA	58.96	54.89
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003

tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.7100e-003	2.6660e-003
tblVehicleEF	LDA	6.1100e-004	5.4300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDT1	0.01	8.2650e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.65	1.56
tblVehicleEF	LDT1	3.08	2.36
tblVehicleEF	LDT1	339.89	323.15
tblVehicleEF	LDT1	71.61	65.44
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22

tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	3.4200e-003	3.1980e-003
tblVehicleEF	LDT1	7.7000e-004	6.4800e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	0.02	8.8400e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.81	1.73
tblVehicleEF	LDT1	2.63	2.02
tblVehicleEF	LDT1	356.82	337.51
tblVehicleEF	LDT1	71.61	64.74
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT1	3.5920e-003	3.3400e-003
tblVehicleEF	LDT1	7.6200e-004	6.4100e-004
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.01	8.0950e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.59	1.51
tblVehicleEF	LDT1	3.17	2.44
tblVehicleEF	LDT1	334.24	318.34
tblVehicleEF	LDT1	71.61	65.58
tblVehicleEF	LDT1	0.15	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	3.3630e-003	3.1500e-003
tblVehicleEF	LDT1	7.7200e-004	6.4900e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	7.0440e-003	5.0890e-003
tblVehicleEF	LDT2	7.1880e-003	0.07
tblVehicleEF	LDT2	0.84	1.06
tblVehicleEF	LDT2	1.49	2.74
tblVehicleEF	LDT2	382.63	349.24
tblVehicleEF	LDT2	81.02	71.19
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.8330e-003	3.4550e-003
tblVehicleEF	LDT2	8.3500e-004	7.0500e-004

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	7.5350e-003	5.4660e-003
tblVehicleEF	LDT2	6.3730e-003	0.06
tblVehicleEF	LDT2	0.94	1.18
tblVehicleEF	LDT2	1.28	2.34
tblVehicleEF	LDT2	402.38	363.41
tblVehicleEF	LDT2	81.02	70.44
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	4.0320e-003	3.5950e-003
tblVehicleEF	LDT2	8.3200e-004	6.9700e-004
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LDT2	6.8940e-003	4.9780e-003
tblVehicleEF	LDT2	7.3550e-003	0.07
tblVehicleEF	LDT2	0.81	1.02
tblVehicleEF	LDT2	1.53	2.82
tblVehicleEF	LDT2	376.06	344.49
tblVehicleEF	LDT2	81.02	71.35
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LDT2	3.7670e-003	3.4080e-003
tblVehicleEF	LDT2	8.3600e-004	7.0600e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.8640e-003	5.6690e-003
tblVehicleEF	LHD1	0.01	6.0180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.71
tblVehicleEF	LHD1	2.81	1.13
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.37
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.31	0.90
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.55

tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2200e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6820e-003
tblVehicleEF	LHD1	0.01	6.1380e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.92	0.72
tblVehicleEF	LHD1	2.68	1.08
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.71
tblVehicleEF	LHD1	33.50	12.28
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.23	0.84
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004

tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0030e-003	6.5590e-003
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tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6670e-003
tblVehicleEF	LHD1	0.01	5.9900e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.70
tblVehicleEF	LHD1	2.82	1.14
tblVehicleEF	LHD1	9.00	9.05

tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.38
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.28	0.88
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
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tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2300e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.09	0.07

tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	4.2390e-003	4.0130e-003
tblVehicleEF	LHD2	4.8300e-003	4.2070e-003
tblVehicleEF	LHD2	9.6290e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.43	0.76
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.60
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.93	1.09
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
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tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
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tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.35

tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0220e-003
tblVehicleEF	LHD2	4.8960e-003	4.2550e-003
tblVehicleEF	LHD2	9.2930e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.37	0.73
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.95
tblVehicleEF	LHD2	28.08	9.54
tblVehicleEF	LHD2	0.10	0.10
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tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003

tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0600e-004	9.4000e-005
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0110e-003
tblVehicleEF	LHD2	4.8130e-003	4.1960e-003
tblVehicleEF	LHD2	9.6860e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.40	0.48
tblVehicleEF	LHD2	1.44	0.77
tblVehicleEF	LHD2	13.72	13.73

tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.61
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.92	1.07
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.06	0.06

tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	MCY	0.50	0.37
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.08	19.33
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	182.36	218.96
tblVehicleEF	MCY	45.23	60.14
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
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tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.49	2.50
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.2100e-003	2.1670e-003
tblVehicleEF	MCY	6.7000e-004	5.9500e-004
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	3.08	3.10
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.24	1.99

tblVehicleEF	MCY	0.49	0.36
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.59	18.81
tblVehicleEF	MCY	8.86	7.79
tblVehicleEF	MCY	182.36	217.93
tblVehicleEF	MCY	45.23	58.33
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.2010e-003	2.1570e-003
tblVehicleEF	MCY	6.5100e-004	5.7700e-004
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	3.02	3.03
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.51	0.37
tblVehicleEF	MCY	0.15	0.24

tblVehicleEF	MCY	19.10	19.35
tblVehicleEF	MCY	9.72	8.59
tblVehicleEF	MCY	182.36	219.02
tblVehicleEF	MCY	45.23	60.39
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	2.49	2.51
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	2.2110e-003	2.1670e-003
tblVehicleEF	MCY	6.7300e-004	5.9800e-004
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	3.09	3.11
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	7.0560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.48	1.33
tblVehicleEF	MDV	2.84	3.27

tblVehicleEF	MDV	515.44	429.05
tblVehicleEF	MDV	107.59	87.05
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.22	0.44
tblVehicleEF	MDV	5.1660e-003	4.2420e-003
tblVehicleEF	MDV	1.1260e-003	8.6100e-004
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.01	7.5220e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.63	1.46
tblVehicleEF	MDV	2.45	2.79
tblVehicleEF	MDV	541.84	444.43
tblVehicleEF	MDV	107.59	86.14

tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.39
tblVehicleEF	MDV	5.4320e-003	4.3940e-003
tblVehicleEF	MDV	1.1190e-003	8.5200e-004
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.43
tblVehicleEF	MDV	0.01	6.9160e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.43	1.28
tblVehicleEF	MDV	2.92	3.36
tblVehicleEF	MDV	506.79	424.01
tblVehicleEF	MDV	107.59	87.24
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	2.1880e-003	2.0180e-003

tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.23	0.45
tblVehicleEF	MDV	5.0790e-003	4.1920e-003
tblVehicleEF	MDV	1.1270e-003	8.6300e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.61	0.31
tblVehicleEF	MH	6.11	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.32	3.91
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0200e-004	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.69	0.31
tblVehicleEF	MH	5.74	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.22	3.69
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	6.9500e-004	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
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tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.59	0.31
tblVehicleEF	MH	6.16	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.30	3.84
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0300e-004	0.00
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tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.39	0.00
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tblVehicleEF	MHD	4.8740e-003	6.7470e-003
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tblVehicleEF	MHD	0.37	0.38
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.44	1.34
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tblVehicleEF	MHD	3.6300e-004	1.8180e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	3.4700e-004	1.7400e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.3390e-003	6.3300e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2800e-004	1.1400e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
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tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.43	0.07
tblVehicleEF	MHD	0.02	4.0190e-003
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tblVehicleEF	MHD	0.05	0.01

tblVehicleEF	MHD	0.27	0.31
tblVehicleEF	MHD	0.37	0.63
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tblVehicleEF	MHD	1,139.95	1,077.14
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tblVehicleEF	MHD	1.11	2.10
tblVehicleEF	MHD	3.0600e-004	1.5350e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	2.9300e-004	1.4690e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	MHD	1.4170e-003	6.4400e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2200e-004	1.1300e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03

tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.42	0.06
tblVehicleEF	MHD	0.02	4.5650e-003
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tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.50	1.35
tblVehicleEF	MHD	127.72	64.87
tblVehicleEF	MHD	1,139.95	1,077.13
tblVehicleEF	MHD	61.46	11.51
tblVehicleEF	MHD	0.53	0.54
tblVehicleEF	MHD	1.16	2.19
tblVehicleEF	MHD	4.4200e-004	2.2090e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	4.2300e-004	2.1140e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
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tblVehicleEF	MHD	0.02	0.14

tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.2320e-003	6.1600e-004
tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.05	0.13
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tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.7300e-004	2.1630e-003
tblVehicleEF	OBUS	7.8190e-003	0.04

tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
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tblVehicleEF	OBUS	0.04	0.06
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tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	9.7800e-004	8.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9100e-004	1.9600e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9090e-003
tblVehicleEF	OBUS	8.9130e-003	9.8460e-003
tblVehicleEF	OBUS	0.03	0.02
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tblVehicleEF	OBUS	0.60	1.04
tblVehicleEF	OBUS	5.48	2.33
tblVehicleEF	OBUS	106.24	92.40
tblVehicleEF	OBUS	1,241.90	1,424.90
tblVehicleEF	OBUS	68.87	19.61

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tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.4600e-004	1.8280e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
tblVehicleEF	OBUS	0.06	0.11
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tblVehicleEF	OBUS	1.0260e-003	8.7900e-004
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tblVehicleEF	OBUS	7.8500e-004	1.9400e-004
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tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
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tblVehicleEF	OBUS	0.38	0.12
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tblVehicleEF	OBUS	8.1890e-003	0.04
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tblVehicleEF	OBUS	2.1000e-004	2.6260e-003
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tblVehicleEF	OBUS	0.01	0.01
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tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
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tblVehicleEF	SBUS	0.03	0.03
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tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
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tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
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tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
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tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
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tblVehicleEF	UBUS	0.05	0.01
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tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	0.81	0.09
tblVehicleEF	UBUS	0.02	0.07

tblVehicleEF	UBUS	0.73	0.06
tblVehicleEF	UBUS	9.6910e-003	2.3330e-003
tblVehicleEF	UBUS	1.2320e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	3.42	5.99
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.00	39.42
tblVehicleEF	UBUS	10.67	0.97
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.73
tblVehicleEF	UBUS	8.92	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004

tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	9.6890e-003	2.3330e-003
tblVehicleEF	UBUS	1.2600e-003	1.1600e-004
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.88	0.07
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	1.99
tblVehicleTrips	SU_TR	0.68	5.00
tblVehicleTrips	WD_TR	6.97	3.90

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6831	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Energy	0.0124	0.1123	0.0943	6.7000e-004		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	619.5912	619.5912	0.0229	6.4900e-003	622.0969
Mobile	0.2924	0.3146	4.4259	0.0129	1.3941	8.2200e-003	1.4023	0.3701	7.5700e-003	0.3776	0.0000	1,184.4996	1,184.4996	0.0304	0.0000	1,185.2590
Offroad	0.0249	0.2822	0.1413	5.8000e-004		9.5300e-003	9.5300e-003		8.7600e-003	8.7600e-003	0.0000	50.8406	50.8406	0.0164	0.0000	51.2516
Waste						0.0000	0.0000		0.0000	0.0000	41.1585	0.0000	41.1585	2.4324	0.0000	101.9683
Water						0.0000	0.0000		0.0000	0.0000	11.9966	156.8816	168.8782	1.2387	0.0304	208.9138
Total	**1.0128**	**0.7091**	**4.6693**	**0.0142**	**1.3941**	**0.0263**	**1.4204**	**0.3701**	**0.0249**	**0.3950**	**53.1551**	**2,011.8281**	**2,064.9832**	**3.7408**	**0.0369**	**2,169.5057**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6831	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Energy	0.0124	0.1123	0.0943	6.7000e-004		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	619.5912	619.5912	0.0229	6.4900e-003	622.0969
Mobile	0.2924	0.3146	4.4259	0.0129	1.3941	8.2200e-003	1.4023	0.3701	7.5700e-003	0.3776	0.0000	1,184.4996	1,184.4996	0.0304	0.0000	1,185.2590
Offroad	0.0249	0.2822	0.1413	5.8000e-004		9.5300e-003	9.5300e-003		8.7600e-003	8.7600e-003	0.0000	50.8406	50.8406	0.0164	0.0000	51.2516
Waste						0.0000	0.0000		0.0000	0.0000	41.1585	0.0000	41.1585	2.4324	0.0000	101.9683
Water						0.0000	0.0000		0.0000	0.0000	11.9966	156.8816	168.8782	1.2387	0.0304	208.9138
Total	**1.0128**	**0.7091**	**4.6693**	**0.0142**	**1.3941**	**0.0263**	**1.4204**	**0.3701**	**0.0249**	**0.3950**	**53.1551**	**2,011.8281**	**2,064.9832**	**3.7408**	**0.0369**	**2,169.5057**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.58

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2924	0.3146	4.4259	0.0129	1.3941	8.2200e-003	1.4023	0.3701	7.5700e-003	0.3776	0.0000	1,184.4996	1,184.4996	0.0304	0.0000	1,185.2590
Unmitigated	0.2924	0.3146	4.4259	0.0129	1.3941	8.2200e-003	1.4023	0.3701	7.5700e-003	0.3776	0.0000	1,184.4996	1,184.4996	0.0304	0.0000	1,185.2590

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	637.72	325.40	817.59	3,739,030	3,739,030
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	637.72	325.40	817.59	3,739,030	3,739,030

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.601100	0.047300	0.219800	0.131800	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Non-Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	497.3844	497.3844	0.0205	4.2500e-003	499.1638
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	497.3844	497.3844	0.0205	4.2500e-003	499.1638
NaturalGas Mitigated	0.0124	0.1123	0.0943	6.7000e-004		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	122.2068	122.2068	2.3400e-003	2.2400e-003	122.9331
NaturalGas Unmitigated	0.0124	0.1123	0.0943	6.7000e-004		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	122.2068	122.2068	2.3400e-003	2.2400e-003	122.9331

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.29007e+006	0.0124	0.1123	0.0943	6.7000e-004		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	122.2068	122.2068	2.3400e-003	2.2400e-003	122.9331
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0124**	**0.1123**	**0.0943**	**6.7000e-004**		**8.5300e-003**	**8.5300e-003**		**8.5300e-003**	**8.5300e-003**	**0.0000**	**122.2068**	**122.2068**	**2.3400e-003**	**2.2400e-003**	**122.9331**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.29007e+006	0.0124	0.1123	0.0943	6.7000e-004		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	122.2068	122.2068	2.3400e-003	2.2400e-003	122.9331
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0124**	**0.1123**	**0.0943**	**6.7000e-004**		**8.5300e-003**	**8.5300e-003**		**8.5300e-003**	**8.5300e-003**	**0.0000**	**122.2068**	**122.2068**	**2.3400e-003**	**2.2400e-003**	**122.9331**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.5526e+006	494.6927	0.0204	4.2300e-003	496.4625
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	8447.95	2.6917	1.1000e-004	2.0000e-005	2.7013
Total		**497.3844**	**0.0205**	**4.2500e-003**	**499.1638**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.5526e+006	494.6927	0.0204	4.2300e-003	496.4625
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	8447.95	2.6917	1.1000e-004	2.0000e-005	2.7013
Total		**497.3844**	**0.0205**	**4.2500e-003**	**499.1638**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6831	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Unmitigated	0.6831	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0786					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6038					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.3000e-004	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Total	**0.6831**	**7.0000e-005**	**7.8200e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0151**	**0.0151**	**4.0000e-005**	**0.0000**	**0.0162**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0786					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6038					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.3000e-004	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Total	**0.6831**	**7.0000e-005**	**7.8200e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0151**	**0.0151**	**4.0000e-005**	**0.0000**	**0.0162**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	168.8782	1.2387	0.0304	208.9138
Unmitigated	168.8782	1.2387	0.0304	208.9138

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	37.814 / 0	168.8782	1.2387	0.0304	208.9138
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**168.8782**	**1.2387**	**0.0304**	**208.9138**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	37.814 / 0	168.8782	1.2387	0.0304	208.9138
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**168.8782**	**1.2387**	**0.0304**	**208.9138**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	41.1585	2.4324	0.0000	101.9683
Unmitigated	41.1585	2.4324	0.0000	101.9683

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	202.76	41.1585	2.4324	0.0000	101.9683
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**41.1585**	**2.4324**	**0.0000**	**101.9683**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	202.76	41.1585	2.4324	0.0000	101.9683
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**41.1585**	**2.4324**	**0.0000**	**101.9683**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/ Backhoes	0.0249	0.2822	0.1413	5.8000e-004		9.5300e-003	9.5300e-003		8.7600e-003	8.7600e-003	0.0000	50.8406	50.8406	0.0164	0.0000	51.2516
Total	**0.0249**	**0.2822**	**0.1413**	**5.8000e-004**		**9.5300e-003**	**9.5300e-003**		**8.7600e-003**	**8.7600e-003**	**0.0000**	**50.8406**	**50.8406**	**0.0164**	**0.0000**	**51.2516**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.3:

CALEEMOD OPERATIONAL (TRUCK) EMISSIONS MODEL OUTPUTS

Pioneer Boulevard Development (Operations - Trucks)

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	163.52	1000sqft	3.75	163,518.00	0
Other Asphalt Surfaces	136.53	1000sqft	3.13	136,533.00	0
Other Non-Asphalt Surfaces	39.09	1000sqft	0.90	39,093.00	0
Parking Lot	271.00	Space	0.55	24,137.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Pioneer Boulevard Development (Operations - Trucks) - South Coast AQMD Air District, Annual

Project Characteristics -

Land Use - Total Project Area is roughly 8.34 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on in ITE 10th Edition and Trip Generation Memo provided by Project Applicant.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix broken down between LHD1, MHDT, and HHDT vehicles.

Energy Use - The project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses due to lighting upgrades.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	LightingElect	3.10	2.17
tblEnergyUse	T24E	2.25	1.58
tblEnergyUse	T24NG	13.65	9.56
tblFleetMix	HHD	0.03	0.44
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LHD1	0.02	0.37
tblFleetMix	LHD2	5.8510e-003	0.00
tblFleetMix	MCY	4.8170e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.2500e-004	0.00

Pioneer Boulevard Development (Operations - Trucks) - South Coast AQMD Air District, Annual

tblFleetMix	MHD	0.02	0.18
tblFleetMix	OBUS	2.0700e-003	0.00
tblFleetMix	SBUS	7.0700e-004	0.00
tblFleetMix	UBUS	1.8770e-003	0.00
tblLandUse	LandUseSquareFeet	108,400.00	24,137.00
tblLandUse	LotAcreage	2.44	0.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.69	6.18
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.90	7.9880e-003
tblVehicleEF	HHD	4,950.31	1,194.39
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.19	6.50
tblVehicleEF	HHD	3.79	3.84
tblVehicleEF	HHD	0.02	9.3830e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	8.9770e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
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tblVehicleEF	HHD	3.6200e-004	1.2690e-003
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tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
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tblVehicleEF	HHD	7.5000e-005	4.0000e-006
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tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	HHD	0.71	0.03
tblVehicleEF	HHD	0.09	0.08

tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.96	6.03
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.75	7.5840e-003
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tblVehicleEF	HHD	1,610.72	1,479.86
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tblVehicleEF	HHD	22.90	6.33
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tblVehicleEF	HHD	0.02	0.05
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tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
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tblVehicleEF	HHD	0.05	0.01

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tblVehicleEF	HHD	0.06	0.06
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tblVehicleEF	HHD	7.7000e-005	1.0000e-006
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tblVehicleEF	HHD	7.1000e-005	1.0000e-006
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tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
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tblVehicleEF	LDA	0.11	0.10
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tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
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tblVehicleEF	LDA	0.07	0.21
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tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.23
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tblVehicleEF	LDA	2.2900e-003	1.9370e-003
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tblVehicleEF	LDA	2.1060e-003	1.7810e-003

tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.7100e-003	2.6660e-003
tblVehicleEF	LDA	6.1100e-004	5.4300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDT1	0.01	8.2650e-003
tblVehicleEF	LDT1	0.02	0.08
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tblVehicleEF	LDT1	3.08	2.36
tblVehicleEF	LDT1	339.89	323.15
tblVehicleEF	LDT1	71.61	65.44
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22

tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	3.4200e-003	3.1980e-003
tblVehicleEF	LDT1	7.7000e-004	6.4800e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	0.02	8.8400e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.81	1.73
tblVehicleEF	LDT1	2.63	2.02
tblVehicleEF	LDT1	356.82	337.51
tblVehicleEF	LDT1	71.61	64.74
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT1	3.5920e-003	3.3400e-003
tblVehicleEF	LDT1	7.6200e-004	6.4100e-004
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.01	8.0950e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.59	1.51
tblVehicleEF	LDT1	3.17	2.44
tblVehicleEF	LDT1	334.24	318.34
tblVehicleEF	LDT1	71.61	65.58
tblVehicleEF	LDT1	0.15	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	3.3630e-003	3.1500e-003
tblVehicleEF	LDT1	7.7200e-004	6.4900e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	7.0440e-003	5.0890e-003
tblVehicleEF	LDT2	7.1880e-003	0.07
tblVehicleEF	LDT2	0.84	1.06
tblVehicleEF	LDT2	1.49	2.74
tblVehicleEF	LDT2	382.63	349.24
tblVehicleEF	LDT2	81.02	71.19
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.8330e-003	3.4550e-003
tblVehicleEF	LDT2	8.3500e-004	7.0500e-004

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
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tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	7.5350e-003	5.4660e-003
tblVehicleEF	LDT2	6.3730e-003	0.06
tblVehicleEF	LDT2	0.94	1.18
tblVehicleEF	LDT2	1.28	2.34
tblVehicleEF	LDT2	402.38	363.41
tblVehicleEF	LDT2	81.02	70.44
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	4.0320e-003	3.5950e-003
tblVehicleEF	LDT2	8.3200e-004	6.9700e-004
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14

tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LDT2	6.8940e-003	4.9780e-003
tblVehicleEF	LDT2	7.3550e-003	0.07
tblVehicleEF	LDT2	0.81	1.02
tblVehicleEF	LDT2	1.53	2.82
tblVehicleEF	LDT2	376.06	344.49
tblVehicleEF	LDT2	81.02	71.35
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LDT2	3.7670e-003	3.4080e-003
tblVehicleEF	LDT2	8.3600e-004	7.0600e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.03

tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.8640e-003	5.6690e-003
tblVehicleEF	LHD1	0.01	6.0180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.71
tblVehicleEF	LHD1	2.81	1.13
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.37
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.31	0.90
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.55

tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2200e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6820e-003
tblVehicleEF	LHD1	0.01	6.1380e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.92	0.72
tblVehicleEF	LHD1	2.68	1.08
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.71
tblVehicleEF	LHD1	33.50	12.28
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.23	0.84
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004

tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0030e-003	6.5590e-003
tblVehicleEF	LHD1	3.8500e-004	1.2200e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6670e-003
tblVehicleEF	LHD1	0.01	5.9900e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.70
tblVehicleEF	LHD1	2.82	1.14
tblVehicleEF	LHD1	9.00	9.05

tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.38
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.28	0.88
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
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tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
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tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.09	0.07

tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	4.2390e-003	4.0130e-003
tblVehicleEF	LHD2	4.8300e-003	4.2070e-003
tblVehicleEF	LHD2	9.6290e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.43	0.76
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.60
tblVehicleEF	LHD2	0.10	0.10
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tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
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tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.35

tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0220e-003
tblVehicleEF	LHD2	4.8960e-003	4.2550e-003
tblVehicleEF	LHD2	9.2930e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.37	0.73
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.95
tblVehicleEF	LHD2	28.08	9.54
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.88	1.03
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003

tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0600e-004	9.4000e-005
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0110e-003
tblVehicleEF	LHD2	4.8130e-003	4.1960e-003
tblVehicleEF	LHD2	9.6860e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.40	0.48
tblVehicleEF	LHD2	1.44	0.77
tblVehicleEF	LHD2	13.72	13.73

tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.61
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.92	1.07
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.06	0.06

tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	MCY	0.50	0.37
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.08	19.33
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	182.36	218.96
tblVehicleEF	MCY	45.23	60.14
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.49	2.50
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.2100e-003	2.1670e-003
tblVehicleEF	MCY	6.7000e-004	5.9500e-004
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	3.08	3.10
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.24	1.99

tblVehicleEF	MCY	0.49	0.36
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.59	18.81
tblVehicleEF	MCY	8.86	7.79
tblVehicleEF	MCY	182.36	217.93
tblVehicleEF	MCY	45.23	58.33
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.2010e-003	2.1570e-003
tblVehicleEF	MCY	6.5100e-004	5.7700e-004
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	3.02	3.03
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.51	0.37
tblVehicleEF	MCY	0.15	0.24

tblVehicleEF	MCY	19.10	19.35
tblVehicleEF	MCY	9.72	8.59
tblVehicleEF	MCY	182.36	219.02
tblVehicleEF	MCY	45.23	60.39
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	2.49	2.51
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	2.2110e-003	2.1670e-003
tblVehicleEF	MCY	6.7300e-004	5.9800e-004
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	3.09	3.11
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	7.0560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.48	1.33
tblVehicleEF	MDV	2.84	3.27

tblVehicleEF	MDV	515.44	429.05
tblVehicleEF	MDV	107.59	87.05
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.22	0.44
tblVehicleEF	MDV	5.1660e-003	4.2420e-003
tblVehicleEF	MDV	1.1260e-003	8.6100e-004
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.01	7.5220e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.63	1.46
tblVehicleEF	MDV	2.45	2.79
tblVehicleEF	MDV	541.84	444.43
tblVehicleEF	MDV	107.59	86.14

tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.39
tblVehicleEF	MDV	5.4320e-003	4.3940e-003
tblVehicleEF	MDV	1.1190e-003	8.5200e-004
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.43
tblVehicleEF	MDV	0.01	6.9160e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.43	1.28
tblVehicleEF	MDV	2.92	3.36
tblVehicleEF	MDV	506.79	424.01
tblVehicleEF	MDV	107.59	87.24
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	2.1880e-003	2.0180e-003

tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.23	0.45
tblVehicleEF	MDV	5.0790e-003	4.1920e-003
tblVehicleEF	MDV	1.1270e-003	8.6300e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.61	0.31
tblVehicleEF	MH	6.11	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.32	3.91
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
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tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
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tblVehicleEF	MH	0.03	3.3440e-003
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tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
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tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
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tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.59	0.31
tblVehicleEF	MH	6.16	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.30	3.84
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.1510e-003	0.00

tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0300e-004	0.00
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tblVehicleEF	MH	0.14	0.08
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tblVehicleEF	MH	0.39	0.00
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tblVehicleEF	MHD	0.37	0.38
tblVehicleEF	MHD	0.37	0.62
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tblVehicleEF	MHD	1,139.95	1,077.13
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tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	3.4700e-004	1.7400e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.3390e-003	6.3300e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2800e-004	1.1400e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
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tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.43	0.07
tblVehicleEF	MHD	0.02	4.0190e-003
tblVehicleEF	MHD	4.9460e-003	6.7970e-003
tblVehicleEF	MHD	0.05	0.01

tblVehicleEF	MHD	0.27	0.31
tblVehicleEF	MHD	0.37	0.63
tblVehicleEF	MHD	6.12	1.27
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tblVehicleEF	MHD	1,139.95	1,077.14
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tblVehicleEF	MHD	1.11	2.10
tblVehicleEF	MHD	3.0600e-004	1.5350e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	2.9300e-004	1.4690e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	MHD	1.4170e-003	6.4400e-004
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tblVehicleEF	MHD	7.2200e-004	1.1300e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
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tblVehicleEF	MHD	0.03	0.03

tblVehicleEF	MHD	1.1660e-003	5.9000e-004
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tblVehicleEF	MHD	0.02	0.12
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tblVehicleEF	MHD	0.02	4.5650e-003
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tblVehicleEF	MHD	4.4200e-004	2.2090e-003
tblVehicleEF	MHD	5.7190e-003	0.06
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tblVehicleEF	MHD	4.2300e-004	2.1140e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
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tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.14

tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.2320e-003	6.1600e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2900e-004	1.1400e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
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tblVehicleEF	OBUS	1.8000e-004	2.2610e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.7300e-004	2.1630e-003
tblVehicleEF	OBUS	7.8190e-003	0.04

tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
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tblVehicleEF	OBUS	0.04	0.06
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tblVehicleEF	OBUS	0.06	0.11
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tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	9.7800e-004	8.7300e-004
tblVehicleEF	OBUS	0.01	0.01
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tblVehicleEF	OBUS	0.08	0.13
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tblVehicleEF	OBUS	0.01	8.9090e-003
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tblVehicleEF	OBUS	1.4600e-004	1.8280e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
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tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
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tblVehicleEF	OBUS	0.35	0.11
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tblVehicleEF	OBUS	2.2000e-004	2.7450e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	2.1000e-004	2.6260e-003
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tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
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tblVehicleEF	SBUS	1,098.65	1,119.95
tblVehicleEF	SBUS	52.57	5.57
tblVehicleEF	SBUS	10.06	3.44
tblVehicleEF	SBUS	4.64	5.26
tblVehicleEF	SBUS	0.01	4.7700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	4.5640e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	3.6480e-003	1.0930e-003
tblVehicleEF	SBUS	0.03	8.9370e-003
tblVehicleEF	SBUS	0.94	0.33

tblVehicleEF	SBUS	1.8170e-003	5.4700e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.01	3.3990e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5600e-004	5.5000e-005
tblVehicleEF	SBUS	3.6480e-003	1.0930e-003
tblVehicleEF	SBUS	0.03	8.9370e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	1.8170e-003	5.4700e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.44	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.4260e-003
tblVehicleEF	SBUS	0.06	5.8400e-003
tblVehicleEF	SBUS	7.73	2.78
tblVehicleEF	SBUS	0.82	0.73
tblVehicleEF	SBUS	6.01	0.73
tblVehicleEF	SBUS	1,199.32	365.47
tblVehicleEF	SBUS	1,098.65	1,119.97
tblVehicleEF	SBUS	52.57	5.25
tblVehicleEF	SBUS	10.38	3.52
tblVehicleEF	SBUS	4.37	4.95
tblVehicleEF	SBUS	9.1580e-003	4.0280e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	8.7620e-003	3.8540e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	0.94	0.33
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.35	0.03
tblVehicleEF	SBUS	0.01	3.4870e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3100e-004	5.2000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.3040e-003
tblVehicleEF	SBUS	0.07	6.8160e-003
tblVehicleEF	SBUS	8.03	2.88

tblVehicleEF	SBUS	0.81	0.72
tblVehicleEF	SBUS	7.81	0.95
tblVehicleEF	SBUS	1,073.80	343.43
tblVehicleEF	SBUS	1,098.65	1,119.94
tblVehicleEF	SBUS	52.57	5.62
tblVehicleEF	SBUS	9.61	3.32
tblVehicleEF	SBUS	4.57	5.17
tblVehicleEF	SBUS	0.01	5.7950e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	5.5450e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
tblVehicleEF	SBUS	0.03	9.5230e-003
tblVehicleEF	SBUS	0.95	0.33
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.2780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6100e-004	5.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
tblVehicleEF	SBUS	0.03	9.5230e-003

tblVehicleEF	SBUS	1.37	0.47
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.45	0.04
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.01	39.42
tblVehicleEF	UBUS	10.46	0.95
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.70
tblVehicleEF	UBUS	9.09	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.79	0.06
tblVehicleEF	UBUS	9.6900e-003	2.3330e-003

tblVehicleEF	UBUS	1.2560e-003	1.1600e-004
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.87	0.07
tblVehicleEF	UBUS	2.52	5.87
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.06	39.42
tblVehicleEF	UBUS	9.07	0.83
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.50
tblVehicleEF	UBUS	8.56	1.21
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	0.81	0.09
tblVehicleEF	UBUS	0.02	0.07

tblVehicleEF	UBUS	0.73	0.06
tblVehicleEF	UBUS	9.6910e-003	2.3330e-003
tblVehicleEF	UBUS	1.2320e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	3.42	5.99
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.00	39.42
tblVehicleEF	UBUS	10.67	0.97
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.73
tblVehicleEF	UBUS	8.92	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004

tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	9.6890e-003	2.3330e-003
tblVehicleEF	UBUS	1.2600e-003	1.1600e-004
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.88	0.07
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	1.06
tblVehicleTrips	SU_TR	0.68	1.06
tblVehicleTrips	WD_TR	6.97	1.06

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6831	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Energy	0.0124	0.1123	0.0943	6.7000e-004		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	619.5912	619.5912	0.0229	6.4900e-003	622.0969
Mobile	0.2865	7.7706	2.0937	0.0290	1.0974	0.1032	1.2006	0.3101	0.0987	0.4088	0.0000	2,817.1933	2,817.1933	0.0998	0.0000	2,819.6880
Offroad	0.0249	0.2822	0.1413	5.8000e-004		9.5300e-003	9.5300e-003		8.7600e-003	8.7600e-003	0.0000	50.8406	50.8406	0.0164	0.0000	51.2516
Waste						0.0000	0.0000		0.0000	0.0000	41.1585	0.0000	41.1585	2.4324	0.0000	101.9683
Water						0.0000	0.0000		0.0000	0.0000	11.9966	156.8816	168.8782	1.2387	0.0304	208.9138
Total	**1.0068**	**8.1651**	**2.3371**	**0.0303**	**1.0974**	**0.1213**	**1.2187**	**0.3101**	**0.1160**	**0.4262**	**53.1551**	**3,644.5219**	**3,697.6769**	**3.8102**	**0.0369**	**3,803.9347**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6831	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Energy	0.0124	0.1123	0.0943	6.7000e-004		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	619.5912	619.5912	0.0229	6.4900e-003	622.0969
Mobile	0.2865	7.7706	2.0937	0.0290	1.0974	0.1032	1.2006	0.3101	0.0987	0.4088	0.0000	2,817.1933	2,817.1933	0.0998	0.0000	2,819.6880
Offroad	0.0249	0.2822	0.1413	5.8000e-004		9.5300e-003	9.5300e-003		8.7600e-003	8.7600e-003	0.0000	50.8406	50.8406	0.0164	0.0000	51.2516
Waste						0.0000	0.0000		0.0000	0.0000	41.1585	0.0000	41.1585	2.4324	0.0000	101.9683
Water						0.0000	0.0000		0.0000	0.0000	11.9966	156.8816	168.8782	1.2387	0.0304	208.9138
Total	**1.0068**	**8.1651**	**2.3371**	**0.0303**	**1.0974**	**0.1213**	**1.2187**	**0.3101**	**0.1160**	**0.4262**	**53.1551**	**3,644.5219**	**3,697.6769**	**3.8102**	**0.0369**	**3,803.9347**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.58

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2865	7.7706	2.0937	0.0290	1.0974	0.1032	1.2006	0.3101	0.0987	0.4088	0.0000	2,817.1933	2,817.1933	0.0998	0.0000	2,819.6880
Unmitigated	0.2865	7.7706	2.0937	0.0290	1.0974	0.1032	1.2006	0.3101	0.0987	0.4088	0.0000	2,817.1933	2,817.1933	0.0998	0.0000	2,819.6880

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	173.33	173.33	173.33	2,523,671	2,523,671
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	173.33	173.33	173.33	2,523,671	2,523,671

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.000000	0.000000	0.000000	0.000000	0.373600	0.000000	0.183900	0.442500	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Non-Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	497.3844	497.3844	0.0205	4.2500e-003	499.1638
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	497.3844	497.3844	0.0205	4.2500e-003	499.1638
NaturalGas Mitigated	0.0124	0.1123	0.0943	6.7000e-004		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	122.2068	122.2068	2.3400e-003	2.2400e-003	122.9331
NaturalGas Unmitigated	0.0124	0.1123	0.0943	6.7000e-004		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	122.2068	122.2068	2.3400e-003	2.2400e-003	122.9331

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.29007e+006	0.0124	0.1123	0.0943	6.7000e-004		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	122.2068	122.2068	2.3400e-003	2.2400e-003	122.9331
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0124**	**0.1123**	**0.0943**	**6.7000e-004**		**8.5300e-003**	**8.5300e-003**		**8.5300e-003**	**8.5300e-003**	**0.0000**	**122.2068**	**122.2068**	**2.3400e-003**	**2.2400e-003**	**122.9331**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.29007e+006	0.0124	0.1123	0.0943	6.7000e-004		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	122.2068	122.2068	2.3400e-003	2.2400e-003	122.9331
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0124**	**0.1123**	**0.0943**	**6.7000e-004**		**8.5300e-003**	**8.5300e-003**		**8.5300e-003**	**8.5300e-003**	**0.0000**	**122.2068**	**122.2068**	**2.3400e-003**	**2.2400e-003**	**122.9331**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.5526e+006	494.6927	0.0204	4.2300e-003	496.4625
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	8447.95	2.6917	1.1000e-004	2.0000e-005	2.7013
Total		**497.3844**	**0.0205**	**4.2500e-003**	**499.1638**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.5526e+006	494.6927	0.0204	4.2300e-003	496.4625
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	8447.95	2.6917	1.1000e-004	2.0000e-005	2.7013
Total		**497.3844**	**0.0205**	**4.2500e-003**	**499.1638**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6831	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Unmitigated	0.6831	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0786					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6038					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.3000e-004	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Total	**0.6831**	**7.0000e-005**	**7.8200e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0151**	**0.0151**	**4.0000e-005**	**0.0000**	**0.0162**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0786					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6038					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.3000e-004	7.0000e-005	7.8200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0151	0.0151	4.0000e-005	0.0000	0.0162
Total	**0.6831**	**7.0000e-005**	**7.8200e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0151**	**0.0151**	**4.0000e-005**	**0.0000**	**0.0162**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	168.8782	1.2387	0.0304	208.9138
Unmitigated	168.8782	1.2387	0.0304	208.9138

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	37.814 / 0	168.8782	1.2387	0.0304	208.9138
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**168.8782**	**1.2387**	**0.0304**	**208.9138**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	37.814 / 0	168.8782	1.2387	0.0304	208.9138
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**168.8782**	**1.2387**	**0.0304**	**208.9138**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	41.1585	2.4324	0.0000	101.9683
Unmitigated	41.1585	2.4324	0.0000	101.9683

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	202.76	41.1585	2.4324	0.0000	101.9683
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**41.1585**	**2.4324**	**0.0000**	**101.9683**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	202.76	41.1585	2.4324	0.0000	101.9683
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**41.1585**	**2.4324**	**0.0000**	**101.9683**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	1	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/Backhoes	0.0249	0.2822	0.1413	5.8000e-004		9.5300e-003	9.5300e-003		8.7600e-003	8.7600e-003	0.0000	50.8406	50.8406	0.0164	0.0000	51.2516
Total	**0.0249**	**0.2822**	**0.1413**	**5.8000e-004**		**9.5300e-003**	**9.5300e-003**		**8.7600e-003**	**8.7600e-003**	**0.0000**	**50.8406**	**50.8406**	**0.0164**	**0.0000**	**51.2516**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.4:

CALEEMOD EXISTING DEVELOPMENT OPERATIONAL EMISSIONS MODEL OUTPUTS

Pioneer Boulevard Development (Existing Operations)

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.06	1000sqft	0.19	8,064.00	0
Office Park	149.61	1000sqft	3.43	149,605.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Pioneer Boulevard Development (Existing Operations) - South Coast AQMD Air District, Annual

Project Characteristics -

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on in ITE 10th Edition and Trip Generation Memo provided by Project Applicant.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.69	6.18
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.90	7.9880e-003
tblVehicleEF	HHD	4,950.31	1,194.39
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.19	6.50
tblVehicleEF	HHD	3.79	3.84
tblVehicleEF	HHD	0.02	9.3830e-003

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	8.9770e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.67	0.48
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0500e-004	6.0000e-006
tblVehicleEF	HHD	4.2950e-003	2.3900e-004
tblVehicleEF	HHD	0.79	0.55
tblVehicleEF	HHD	7.5000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.6200e-004	1.2690e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	HHD	0.71	0.03

tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.96	6.03
tblVehicleEF	HHD	0.97	0.65
tblVehicleEF	HHD	2.75	7.5840e-003
tblVehicleEF	HHD	5,242.63	1,192.05
tblVehicleEF	HHD	1,610.72	1,479.86
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	22.90	6.33
tblVehicleEF	HHD	3.59	3.63
tblVehicleEF	HHD	0.01	8.7460e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	8.3670e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.8730e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
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tblVehicleEF	HHD	1.1700e-004	7.0000e-006
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tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.07	2.0000e-006

tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3600e-004	1.0000e-006
tblVehicleEF	HHD	1.7000e-004	1.1000e-005
tblVehicleEF	HHD	4.5010e-003	2.4900e-004
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tblVehicleEF	HHD	1.1700e-004	7.0000e-006
tblVehicleEF	HHD	0.23	0.20
tblVehicleEF	HHD	3.5600e-004	1.2610e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.81	0.02
tblVehicleEF	HHD	0.09	4.9680e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.70	6.30
tblVehicleEF	HHD	0.97	0.46
tblVehicleEF	HHD	2.92	8.0430e-003
tblVehicleEF	HHD	4,546.63	1,180.14
tblVehicleEF	HHD	1,610.72	1,429.60
tblVehicleEF	HHD	9.10	0.07
tblVehicleEF	HHD	21.21	6.63
tblVehicleEF	HHD	3.74	3.74
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.03
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	9.5750e-003

tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8180e-003	8.7430e-003
tblVehicleEF	HHD	0.02	0.05
tblVehicleEF	HHD	7.1000e-005	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
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tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.08	2.0000e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.0000e-004	7.0000e-006
tblVehicleEF	HHD	4.6100e-003	2.7300e-004
tblVehicleEF	HHD	0.85	0.51
tblVehicleEF	HHD	7.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.23	0.12
tblVehicleEF	HHD	3.9100e-004	1.3430e-003
tblVehicleEF	HHD	0.09	2.0000e-006
tblVehicleEF	LDA	5.2110e-003	3.1430e-003
tblVehicleEF	LDA	5.8420e-003	0.05
tblVehicleEF	LDA	0.65	0.74
tblVehicleEF	LDA	1.21	2.15
tblVehicleEF	LDA	275.32	274.11
tblVehicleEF	LDA	58.96	54.77

tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDA	2.7580e-003	2.7120e-003
tblVehicleEF	LDA	6.1000e-004	5.4200e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.09	0.26
tblVehicleEF	LDA	5.5820e-003	3.3870e-003
tblVehicleEF	LDA	5.1760e-003	0.05
tblVehicleEF	LDA	0.73	0.83
tblVehicleEF	LDA	1.04	1.84
tblVehicleEF	LDA	290.06	288.26
tblVehicleEF	LDA	58.96	54.19
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003

tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003
tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.9060e-003	2.8520e-003
tblVehicleEF	LDA	6.0700e-004	5.3600e-004
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	5.0990e-003	3.0730e-003
tblVehicleEF	LDA	5.9770e-003	0.05
tblVehicleEF	LDA	0.63	0.71
tblVehicleEF	LDA	1.25	2.21
tblVehicleEF	LDA	270.53	269.50
tblVehicleEF	LDA	58.96	54.89
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	2.0440e-003	1.7840e-003
tblVehicleEF	LDA	2.2900e-003	1.9370e-003
tblVehicleEF	LDA	1.8840e-003	1.6430e-003

tblVehicleEF	LDA	2.1060e-003	1.7810e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.7100e-003	2.6660e-003
tblVehicleEF	LDA	6.1100e-004	5.4300e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.25
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDT1	0.01	8.2650e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.65	1.56
tblVehicleEF	LDT1	3.08	2.36
tblVehicleEF	LDT1	339.89	323.15
tblVehicleEF	LDT1	71.61	65.44
tblVehicleEF	LDT1	0.16	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15

tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	3.4200e-003	3.1980e-003
tblVehicleEF	LDT1	7.7000e-004	6.4800e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.76
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	0.02	8.8400e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.81	1.73
tblVehicleEF	LDT1	2.63	2.02
tblVehicleEF	LDT1	356.82	337.51
tblVehicleEF	LDT1	71.61	64.74
tblVehicleEF	LDT1	0.14	0.12
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18

tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT1	3.5920e-003	3.3400e-003
tblVehicleEF	LDT1	7.6200e-004	6.4100e-004
tblVehicleEF	LDT1	0.24	0.24
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.17	0.71
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	0.01	8.0950e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.59	1.51
tblVehicleEF	LDT1	3.17	2.44
tblVehicleEF	LDT1	334.24	318.34
tblVehicleEF	LDT1	71.61	65.58
tblVehicleEF	LDT1	0.15	0.13
tblVehicleEF	LDT1	3.3000e-003	2.7340e-003
tblVehicleEF	LDT1	3.5610e-003	2.8290e-003
tblVehicleEF	LDT1	3.0390e-003	2.5160e-003
tblVehicleEF	LDT1	3.2750e-003	2.6010e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.90

tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	3.3630e-003	3.1500e-003
tblVehicleEF	LDT1	7.7200e-004	6.4900e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.25
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.21	0.90
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	7.0440e-003	5.0890e-003
tblVehicleEF	LDT2	7.1880e-003	0.07
tblVehicleEF	LDT2	0.84	1.06
tblVehicleEF	LDT2	1.49	2.74
tblVehicleEF	LDT2	382.63	349.24
tblVehicleEF	LDT2	81.02	71.19
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.8330e-003	3.4550e-003

tblVehicleEF	LDT2	8.3500e-004	7.0500e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	7.5350e-003	5.4660e-003
tblVehicleEF	LDT2	6.3730e-003	0.06
tblVehicleEF	LDT2	0.94	1.18
tblVehicleEF	LDT2	1.28	2.34
tblVehicleEF	LDT2	402.38	363.41
tblVehicleEF	LDT2	81.02	70.44
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.08	0.13
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	4.0320e-003	3.5950e-003
tblVehicleEF	LDT2	8.3200e-004	6.9700e-004
tblVehicleEF	LDT2	0.08	0.13

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LDT2	6.8940e-003	4.9780e-003
tblVehicleEF	LDT2	7.3550e-003	0.07
tblVehicleEF	LDT2	0.81	1.02
tblVehicleEF	LDT2	1.53	2.82
tblVehicleEF	LDT2	376.06	344.49
tblVehicleEF	LDT2	81.02	71.35
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.9920e-003	1.8560e-003
tblVehicleEF	LDT2	2.3200e-003	1.9490e-003
tblVehicleEF	LDT2	1.8320e-003	1.7080e-003
tblVehicleEF	LDT2	2.1330e-003	1.7920e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LDT2	3.7670e-003	3.4080e-003
tblVehicleEF	LDT2	8.3600e-004	7.0600e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07

tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.8640e-003	5.6690e-003
tblVehicleEF	LHD1	0.01	6.0180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.71
tblVehicleEF	LHD1	2.81	1.13
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.37
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.31	0.90
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
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tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.07	0.05

tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2200e-004
tblVehicleEF	LHD1	3.3200e-003	2.7390e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9270e-003	1.5950e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.55
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6820e-003
tblVehicleEF	LHD1	0.01	6.1380e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.92	0.72
tblVehicleEF	LHD1	2.68	1.08
tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.71
tblVehicleEF	LHD1	33.50	12.28
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.23	0.84
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004

tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0030e-003	6.5590e-003
tblVehicleEF	LHD1	3.8500e-004	1.2200e-004
tblVehicleEF	LHD1	5.1880e-003	4.2550e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9140e-003	2.4000e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.30	0.54
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.8640e-003	5.6670e-003
tblVehicleEF	LHD1	0.01	5.9900e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.91	0.70
tblVehicleEF	LHD1	2.82	1.14

tblVehicleEF	LHD1	9.00	9.05
tblVehicleEF	LHD1	610.88	671.68
tblVehicleEF	LHD1	33.50	12.38
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.28	0.88
tblVehicleEF	LHD1	8.5300e-004	7.7100e-004
tblVehicleEF	LHD1	0.01	9.6790e-003
tblVehicleEF	LHD1	0.01	7.5770e-003
tblVehicleEF	LHD1	1.0090e-003	2.8100e-004
tblVehicleEF	LHD1	8.1600e-004	7.3700e-004
tblVehicleEF	LHD1	2.5040e-003	2.4200e-003
tblVehicleEF	LHD1	0.01	7.2210e-003
tblVehicleEF	LHD1	9.2800e-004	2.5900e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.0000e-005	8.8000e-005
tblVehicleEF	LHD1	6.0020e-003	6.5590e-003
tblVehicleEF	LHD1	3.8800e-004	1.2300e-004
tblVehicleEF	LHD1	3.3910e-003	2.8160e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8940e-003	1.5730e-003

tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.33	0.60
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD2	4.2390e-003	4.0130e-003
tblVehicleEF	LHD2	4.8300e-003	4.2070e-003
tblVehicleEF	LHD2	9.6290e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.43	0.76
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.60
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.93	1.09
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.05	0.05

tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.3010e-003	1.6720e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.0500e-004	9.8900e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.35
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0220e-003
tblVehicleEF	LHD2	4.8960e-003	4.2550e-003
tblVehicleEF	LHD2	9.2930e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.41	0.49
tblVehicleEF	LHD2	1.37	0.73
tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.95
tblVehicleEF	LHD2	28.08	9.54
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.88	1.03
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004

tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0600e-004	9.4000e-005
tblVehicleEF	LHD2	2.0260e-003	2.5920e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2020e-003	1.4790e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.34
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	LHD2	4.2390e-003	4.0110e-003
tblVehicleEF	LHD2	4.8130e-003	4.1960e-003
tblVehicleEF	LHD2	9.6860e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.40	0.48
tblVehicleEF	LHD2	1.44	0.77

tblVehicleEF	LHD2	13.72	13.73
tblVehicleEF	LHD2	622.17	675.94
tblVehicleEF	LHD2	28.08	9.61
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.92	1.07
tblVehicleEF	LHD2	1.2010e-003	1.2470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7800e-004	1.5900e-004
tblVehicleEF	LHD2	1.1490e-003	1.1930e-003
tblVehicleEF	LHD2	2.6500e-003	2.6300e-003
tblVehicleEF	LHD2	9.6020e-003	0.01
tblVehicleEF	LHD2	4.3900e-004	1.4600e-004
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3200e-004
tblVehicleEF	LHD2	6.0640e-003	6.5430e-003
tblVehicleEF	LHD2	3.0700e-004	9.5000e-005
tblVehicleEF	LHD2	1.2850e-003	1.6760e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.7600e-004	9.5300e-004

tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.10	0.38
tblVehicleEF	LHD2	0.14	0.06
tblVehicleEF	MCY	0.50	0.37
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.08	19.33
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	182.36	218.96
tblVehicleEF	MCY	45.23	60.14
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.49	2.50
tblVehicleEF	MCY	0.63	2.04
tblVehicleEF	MCY	2.06	1.83
tblVehicleEF	MCY	2.2100e-003	2.1670e-003
tblVehicleEF	MCY	6.7000e-004	5.9500e-004
tblVehicleEF	MCY	1.18	1.20
tblVehicleEF	MCY	0.69	0.71
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	3.08	3.10
tblVehicleEF	MCY	0.63	2.04

tblVehicleEF	MCY	2.24	1.99
tblVehicleEF	MCY	0.49	0.36
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.59	18.81
tblVehicleEF	MCY	8.86	7.79
tblVehicleEF	MCY	182.36	217.93
tblVehicleEF	MCY	45.23	58.33
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	2.43	2.44
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.2010e-003	2.1570e-003
tblVehicleEF	MCY	6.5100e-004	5.7700e-004
tblVehicleEF	MCY	1.98	2.00
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.25	1.26
tblVehicleEF	MCY	3.02	3.03
tblVehicleEF	MCY	0.59	1.93
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.51	0.37

tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.10	19.35
tblVehicleEF	MCY	9.72	8.59
tblVehicleEF	MCY	182.36	219.02
tblVehicleEF	MCY	45.23	60.39
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.2250e-003	2.2170e-003
tblVehicleEF	MCY	3.8410e-003	3.2540e-003
tblVehicleEF	MCY	2.0810e-003	2.0730e-003
tblVehicleEF	MCY	3.6200e-003	3.0670e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	2.49	2.51
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.10	1.86
tblVehicleEF	MCY	2.2110e-003	2.1670e-003
tblVehicleEF	MCY	6.7300e-004	5.9800e-004
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.89	0.91
tblVehicleEF	MCY	0.67	0.69
tblVehicleEF	MCY	3.09	3.11
tblVehicleEF	MCY	0.72	2.33
tblVehicleEF	MCY	2.28	2.02
tblVehicleEF	MDV	0.01	7.0560e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.48	1.33

tblVehicleEF	MDV	2.84	3.27
tblVehicleEF	MDV	515.44	429.05
tblVehicleEF	MDV	107.59	87.05
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.22	0.44
tblVehicleEF	MDV	5.1660e-003	4.2420e-003
tblVehicleEF	MDV	1.1260e-003	8.6100e-004
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.10	0.45
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.01	7.5220e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.63	1.46
tblVehicleEF	MDV	2.45	2.79
tblVehicleEF	MDV	541.84	444.43

tblVehicleEF	MDV	107.59	86.14
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.19	0.39
tblVehicleEF	MDV	5.4320e-003	4.3940e-003
tblVehicleEF	MDV	1.1190e-003	8.5200e-004
tblVehicleEF	MDV	0.13	0.16
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.21	0.43
tblVehicleEF	MDV	0.01	6.9160e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.43	1.28
tblVehicleEF	MDV	2.92	3.36
tblVehicleEF	MDV	506.79	424.01
tblVehicleEF	MDV	107.59	87.24
tblVehicleEF	MDV	0.16	0.12

tblVehicleEF	MDV	2.1880e-003	2.0180e-003
tblVehicleEF	MDV	2.5060e-003	2.1340e-003
tblVehicleEF	MDV	2.0180e-003	1.8610e-003
tblVehicleEF	MDV	2.3060e-003	1.9640e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.23	0.45
tblVehicleEF	MDV	5.0790e-003	4.1920e-003
tblVehicleEF	MDV	1.1270e-003	8.6300e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.53
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.61	0.31
tblVehicleEF	MH	6.11	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.32	3.91
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10

tblVehicleEF	MH	1.1510e-003	0.00
tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0200e-004	0.00
tblVehicleEF	MH	1.15	0.00
tblVehicleEF	MH	0.08	0.00
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tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.38	0.00
tblVehicleEF	MH	0.03	3.3440e-003
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tblVehicleEF	MH	2.69	0.31
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tblVehicleEF	MH	1.22	3.69
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10

tblVehicleEF	MH	1.1510e-003	0.00
tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	6.9500e-004	0.00
tblVehicleEF	MH	1.78	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.72	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3440e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.59	0.31
tblVehicleEF	MH	6.16	0.00
tblVehicleEF	MH	1,106.44	972.99
tblVehicleEF	MH	59.52	0.00
tblVehicleEF	MH	1.30	3.84
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.10

tblVehicleEF	MH	1.1510e-003	0.00
tblVehicleEF	MH	3.2170e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.10
tblVehicleEF	MH	1.0590e-003	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.01	9.1980e-003
tblVehicleEF	MH	7.0300e-004	0.00
tblVehicleEF	MH	1.27	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.47	0.00
tblVehicleEF	MH	0.14	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MHD	0.02	4.2430e-003
tblVehicleEF	MHD	4.8740e-003	6.7470e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.37	0.38
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.44	1.34
tblVehicleEF	MHD	139.10	66.57
tblVehicleEF	MHD	1,139.95	1,077.13
tblVehicleEF	MHD	61.46	11.49

tblVehicleEF	MHD	0.55	0.55
tblVehicleEF	MHD	1.18	2.23
tblVehicleEF	MHD	3.6300e-004	1.8180e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	3.4700e-004	1.7400e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.3390e-003	6.3300e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2800e-004	1.1400e-004
tblVehicleEF	MHD	1.2630e-003	6.4000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.7200e-004	3.9300e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.43	0.07
tblVehicleEF	MHD	0.02	4.0190e-003
tblVehicleEF	MHD	4.9460e-003	6.7970e-003

tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.27	0.31
tblVehicleEF	MHD	0.37	0.63
tblVehicleEF	MHD	6.12	1.27
tblVehicleEF	MHD	147.32	67.79
tblVehicleEF	MHD	1,139.95	1,077.14
tblVehicleEF	MHD	61.46	11.37
tblVehicleEF	MHD	0.57	0.55
tblVehicleEF	MHD	1.11	2.10
tblVehicleEF	MHD	3.0600e-004	1.5350e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	2.9300e-004	1.4690e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.04	0.11
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	MHD	1.4170e-003	6.4400e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2200e-004	1.1300e-004
tblVehicleEF	MHD	1.9740e-003	9.9200e-004
tblVehicleEF	MHD	0.05	0.03

tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.1660e-003	5.9000e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.42	0.06
tblVehicleEF	MHD	0.02	4.5650e-003
tblVehicleEF	MHD	4.8520e-003	6.7310e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.51	0.48
tblVehicleEF	MHD	0.37	0.62
tblVehicleEF	MHD	6.50	1.35
tblVehicleEF	MHD	127.72	64.87
tblVehicleEF	MHD	1,139.95	1,077.13
tblVehicleEF	MHD	61.46	11.51
tblVehicleEF	MHD	0.53	0.54
tblVehicleEF	MHD	1.16	2.19
tblVehicleEF	MHD	4.4200e-004	2.2090e-003
tblVehicleEF	MHD	5.7190e-003	0.06
tblVehicleEF	MHD	8.4000e-004	1.2600e-004
tblVehicleEF	MHD	4.2300e-004	2.1140e-003
tblVehicleEF	MHD	5.4680e-003	0.06
tblVehicleEF	MHD	7.7200e-004	1.1600e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.04	0.11

tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	MHD	1.2320e-003	6.1600e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2900e-004	1.1400e-004
tblVehicleEF	MHD	1.2610e-003	6.4600e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.4700e-004	3.8300e-004
tblVehicleEF	MHD	0.05	0.13
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.44	0.07
tblVehicleEF	OBUS	0.01	8.8890e-003
tblVehicleEF	OBUS	8.7600e-003	9.7060e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.58
tblVehicleEF	OBUS	0.59	1.02
tblVehicleEF	OBUS	5.80	2.47
tblVehicleEF	OBUS	101.23	91.74
tblVehicleEF	OBUS	1,241.90	1,424.87
tblVehicleEF	OBUS	68.87	19.84
tblVehicleEF	OBUS	0.52	0.58
tblVehicleEF	OBUS	1.61	2.00
tblVehicleEF	OBUS	1.8000e-004	2.2610e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.7300e-004	2.1630e-003

tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	9.7800e-004	8.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9100e-004	1.9600e-004
tblVehicleEF	OBUS	1.5730e-003	1.9710e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	8.0200e-004	9.7300e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.26
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9090e-003
tblVehicleEF	OBUS	8.9130e-003	9.8460e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.55
tblVehicleEF	OBUS	0.60	1.04
tblVehicleEF	OBUS	5.48	2.33
tblVehicleEF	OBUS	106.24	92.40
tblVehicleEF	OBUS	1,241.90	1,424.90

tblVehicleEF	OBUS	68.87	19.61
tblVehicleEF	OBUS	0.53	0.58
tblVehicleEF	OBUS	1.52	1.88
tblVehicleEF	OBUS	1.5200e-004	1.9110e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	1.4600e-004	1.8280e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.25
tblVehicleEF	OBUS	0.35	0.11
tblVehicleEF	OBUS	1.0260e-003	8.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8500e-004	1.9400e-004
tblVehicleEF	OBUS	2.3950e-003	2.9680e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	1.2060e-003	1.4480e-003
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.25
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.8830e-003

tblVehicleEF	OBUS	8.7200e-003	9.6690e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.30	0.62
tblVehicleEF	OBUS	0.59	1.02
tblVehicleEF	OBUS	5.86	2.50
tblVehicleEF	OBUS	94.31	90.82
tblVehicleEF	OBUS	1,241.90	1,424.86
tblVehicleEF	OBUS	68.87	19.88
tblVehicleEF	OBUS	0.49	0.58
tblVehicleEF	OBUS	1.59	1.97
tblVehicleEF	OBUS	2.2000e-004	2.7450e-003
tblVehicleEF	OBUS	8.1890e-003	0.04
tblVehicleEF	OBUS	8.1000e-004	1.9700e-004
tblVehicleEF	OBUS	2.1000e-004	2.6260e-003
tblVehicleEF	OBUS	7.8190e-003	0.04
tblVehicleEF	OBUS	7.4400e-004	1.8100e-004
tblVehicleEF	OBUS	1.5900e-003	2.0390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
tblVehicleEF	OBUS	0.06	0.11
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.37	0.12
tblVehicleEF	OBUS	9.1200e-004	8.6400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9700e-004
tblVehicleEF	OBUS	1.5900e-003	2.0390e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	7.8500e-004	9.6200e-004
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.3270e-003
tblVehicleEF	SBUS	0.07	6.6490e-003
tblVehicleEF	SBUS	7.86	2.82
tblVehicleEF	SBUS	0.81	0.72
tblVehicleEF	SBUS	7.55	0.92
tblVehicleEF	SBUS	1,146.60	356.21
tblVehicleEF	SBUS	1,098.65	1,119.95
tblVehicleEF	SBUS	52.57	5.57
tblVehicleEF	SBUS	10.06	3.44
tblVehicleEF	SBUS	4.64	5.26
tblVehicleEF	SBUS	0.01	4.7700e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	4.5640e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	3.6480e-003	1.0930e-003
tblVehicleEF	SBUS	0.03	8.9370e-003

tblVehicleEF	SBUS	0.94	0.33
tblVehicleEF	SBUS	1.8170e-003	5.4700e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.01	3.3990e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5600e-004	5.5000e-005
tblVehicleEF	SBUS	3.6480e-003	1.0930e-003
tblVehicleEF	SBUS	0.03	8.9370e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	1.8170e-003	5.4700e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.44	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.4260e-003
tblVehicleEF	SBUS	0.06	5.8400e-003
tblVehicleEF	SBUS	7.73	2.78
tblVehicleEF	SBUS	0.82	0.73
tblVehicleEF	SBUS	6.01	0.73
tblVehicleEF	SBUS	1,199.32	365.47
tblVehicleEF	SBUS	1,098.65	1,119.97
tblVehicleEF	SBUS	52.57	5.25
tblVehicleEF	SBUS	10.38	3.52
tblVehicleEF	SBUS	4.37	4.95
tblVehicleEF	SBUS	9.1580e-003	4.0280e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	8.7620e-003	3.8540e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	0.94	0.33
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.35	0.03
tblVehicleEF	SBUS	0.01	3.4870e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3100e-004	5.2000e-005
tblVehicleEF	SBUS	5.6470e-003	1.6880e-003
tblVehicleEF	SBUS	0.03	9.1690e-003
tblVehicleEF	SBUS	1.36	0.47
tblVehicleEF	SBUS	2.8110e-003	8.4300e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.86	0.07
tblVehicleEF	SBUS	0.01	8.3040e-003
tblVehicleEF	SBUS	0.07	6.8160e-003

tblVehicleEF	SBUS	8.03	2.88
tblVehicleEF	SBUS	0.81	0.72
tblVehicleEF	SBUS	7.81	0.95
tblVehicleEF	SBUS	1,073.80	343.43
tblVehicleEF	SBUS	1,098.65	1,119.94
tblVehicleEF	SBUS	52.57	5.62
tblVehicleEF	SBUS	9.61	3.32
tblVehicleEF	SBUS	4.57	5.17
tblVehicleEF	SBUS	0.01	5.7950e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.2300e-004	5.0000e-005
tblVehicleEF	SBUS	0.01	5.5450e-003
tblVehicleEF	SBUS	2.6920e-003	2.6700e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	6.6400e-004	4.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003
tblVehicleEF	SBUS	0.03	9.5230e-003
tblVehicleEF	SBUS	0.95	0.33
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.2780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6100e-004	5.6000e-005
tblVehicleEF	SBUS	3.6250e-003	1.0870e-003

tblVehicleEF	SBUS	0.03	9.5230e-003
tblVehicleEF	SBUS	1.37	0.47
tblVehicleEF	SBUS	1.7640e-003	5.3500e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.45	0.04
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.01	39.42
tblVehicleEF	UBUS	10.46	0.95
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.70
tblVehicleEF	UBUS	9.09	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.79	0.06

tblVehicleEF	UBUS	9.6900e-003	2.3330e-003
tblVehicleEF	UBUS	1.2560e-003	1.1600e-004
tblVehicleEF	UBUS	5.1810e-003	1.0630e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	2.8830e-003	7.3600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	0.87	0.07
tblVehicleEF	UBUS	2.52	5.87
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	11.06	39.42
tblVehicleEF	UBUS	9.07	0.83
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.50
tblVehicleEF	UBUS	8.56	1.21
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	0.81	0.09

tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	0.73	0.06
tblVehicleEF	UBUS	9.6910e-003	2.3330e-003
tblVehicleEF	UBUS	1.2320e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.5670e-003
tblVehicleEF	UBUS	0.09	0.01
tblVehicleEF	UBUS	4.3230e-003	1.0570e-003
tblVehicleEF	UBUS	3.42	5.99
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	2.51	5.87
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	11.00	39.42
tblVehicleEF	UBUS	10.67	0.97
tblVehicleEF	UBUS	1,940.83	1,945.19
tblVehicleEF	UBUS	106.77	11.73
tblVehicleEF	UBUS	8.92	1.22
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	3.6010e-003
tblVehicleEF	UBUS	1.1160e-003	5.3000e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003
tblVehicleEF	UBUS	0.11	3.4410e-003
tblVehicleEF	UBUS	1.0260e-003	4.8000e-005
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01

tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.80	0.07
tblVehicleEF	UBUS	9.6890e-003	2.3330e-003
tblVehicleEF	UBUS	1.2600e-003	1.1600e-004
tblVehicleEF	UBUS	5.7050e-003	1.0380e-003
tblVehicleEF	UBUS	0.10	0.01
tblVehicleEF	UBUS	2.9930e-003	7.0600e-004
tblVehicleEF	UBUS	3.40	5.99
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	0.88	0.07
tblVehicleTrips	ST_TR	2.46	2.21
tblVehicleTrips	ST_TR	1.64	2.56
tblVehicleTrips	SU_TR	1.05	0.70
tblVehicleTrips	SU_TR	0.76	1.08
tblVehicleTrips	WD_TR	11.03	9.74
tblVehicleTrips	WD_TR	11.42	12.44

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6430	2.0000e-005	2.0200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1700e-003
Energy	8.3500e-003	0.0759	0.0638	4.6000e-004		5.7700e-003	5.7700e-003		5.7700e-003	5.7700e-003	0.0000	790.5072	790.5072	0.0308	7.5600e-003	793.5307
Mobile	0.7096	2.2752	7.3052	0.0207	1.8742	0.0293	1.9035	0.5014	0.0277	0.5291	0.0000	1,942.9916	1,942.9916	0.1297	0.0000	1,946.2334
Waste						0.0000	0.0000		0.0000	0.0000	29.7646	0.0000	29.7646	1.7590	0.0000	73.7405
Water						0.0000	0.0000		0.0000	0.0000	8.8899	177.0504	185.9403	0.9204	0.0231	215.8256
Total	**1.3610**	**2.3511**	**7.3710**	**0.0212**	**1.8742**	**0.0351**	**1.9093**	**0.5014**	**0.0335**	**0.5348**	**38.6545**	**2,910.5531**	**2,949.2076**	**2.8399**	**0.0306**	**3,029.3344**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6430	2.0000e-005	2.0200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1700e-003
Energy	8.3500e-003	0.0759	0.0638	4.6000e-004		5.7700e-003	5.7700e-003		5.7700e-003	5.7700e-003	0.0000	790.5072	790.5072	0.0308	7.5600e-003	793.5307
Mobile	0.7096	2.2752	7.3052	0.0207	1.8742	0.0293	1.9035	0.5014	0.0277	0.5291	0.0000	1,942.9916	1,942.9916	0.1297	0.0000	1,946.2334
Waste						0.0000	0.0000		0.0000	0.0000	29.7646	0.0000	29.7646	1.7590	0.0000	73.7405
Water						0.0000	0.0000		0.0000	0.0000	8.8899	177.0504	185.9403	0.9204	0.0231	215.8256
Total	**1.3610**	**2.3511**	**7.3710**	**0.0212**	**1.8742**	**0.0351**	**1.9093**	**0.5014**	**0.0335**	**0.5348**	**38.6545**	**2,910.5531**	**2,949.2076**	**2.8399**	**0.0306**	**3,029.3344**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7096	2.2752	7.3052	0.0207	1.8742	0.0293	1.9035	0.5014	0.0277	0.5291	0.0000	1,942.9916	1,942.9916	0.1297	0.0000	1,946.2334
Unmitigated	0.7096	2.2752	7.3052	0.0207	1.8742	0.0293	1.9035	0.5014	0.0277	0.5291	0.0000	1,942.9916	1,942.9916	0.1297	0.0000	1,946.2334

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	78.54	17.82	5.64	191,531	191,531
Office Park	1,861.09	382.99	161.57	4,754,241	4,754,241
Total	1,939.63	400.81	167.22	4,945,772	4,945,772

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Office Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	707.8692	707.8692	0.0292	6.0500e-003	710.4016
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	707.8692	707.8692	0.0292	6.0500e-003	710.4016
NaturalGas Mitigated	8.3500e-003	0.0759	0.0638	4.6000e-004		5.7700e-003	5.7700e-003		5.7700e-003	5.7700e-003	0.0000	82.6381	82.6381	1.5800e-003	1.5200e-003	83.1292
NaturalGas Unmitigated	8.3500e-003	0.0759	0.0638	4.6000e-004		5.7700e-003	5.7700e-003		5.7700e-003	5.7700e-003	0.0000	82.6381	82.6381	1.5800e-003	1.5200e-003	83.1292

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	83946.2	4.5000e-004	4.1200e-003	3.4600e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	4.4797	4.4797	9.0000e-005	8.0000e-005	4.5063
Office Park	1.46463e+006	7.9000e-003	0.0718	0.0603	4.3000e-004		5.4600e-003	5.4600e-003		5.4600e-003	5.4600e-003	0.0000	78.1584	78.1584	1.5000e-003	1.4300e-003	78.6229
Total		**8.3500e-003**	**0.0759**	**0.0638**	**4.5000e-004**		**5.7700e-003**	**5.7700e-003**		**5.7700e-003**	**5.7700e-003**	**0.0000**	**82.6381**	**82.6381**	**1.5900e-003**	**1.5100e-003**	**83.1292**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	83946.2	4.5000e-004	4.1200e-003	3.4600e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	4.4797	4.4797	9.0000e-005	8.0000e-005	4.5063
Office Park	1.46463e+006	7.9000e-003	0.0718	0.0603	4.3000e-004		5.4600e-003	5.4600e-003		5.4600e-003	5.4600e-003	0.0000	78.1584	78.1584	1.5000e-003	1.4300e-003	78.6229
Total		**8.3500e-003**	**0.0759**	**0.0638**	**4.5000e-004**		**5.7700e-003**	**5.7700e-003**		**5.7700e-003**	**5.7700e-003**	**0.0000**	**82.6381**	**82.6381**	**1.5900e-003**	**1.5100e-003**	**83.1292**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	104751	33.3760	1.3800e-003	2.9000e-004	33.4954
Office Park	2.11691e+006	674.4931	0.0279	5.7600e-003	676.9061
Total		**707.8692**	**0.0292**	**6.0500e-003**	**710.4016**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	104751	33.3760	1.3800e-003	2.9000e-004	33.4954
Office Park	2.11691e+006	674.4931	0.0279	5.7600e-003	676.9061
Total		**707.8692**	**0.0292**	**6.0500e-003**	**710.4016**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6430	2.0000e-005	2.0200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1700e-003
Unmitigated	0.6430	2.0000e-005	2.0200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0731					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5697					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1700e-003
Total	**0.6430**	**2.0000e-005**	**2.0200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.9100e-003**	**3.9100e-003**	**1.0000e-005**	**0.0000**	**4.1700e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0731					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5697					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9100e-003	3.9100e-003	1.0000e-005	0.0000	4.1700e-003
Total	**0.6430**	**2.0000e-005**	**2.0200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.9100e-003**	**3.9100e-003**	**1.0000e-005**	**0.0000**	**4.1700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	185.9403	0.9204	0.0231	215.8256
Unmitigated	185.9403	0.9204	0.0231	215.8256

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.43253 / 0.878005	9.5058	0.0471	1.1800e-003	11.0336
Office Park	26.589 / 16.2965	176.4346	0.8733	0.0219	204.7920
Total		**185.9403**	**0.9204**	**0.0231**	**215.8256**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.43253 / 0.878005	9.5058	0.0471	1.1800e-003	11.0336
Office Park	26.589 / 16.2965	176.4346	0.8733	0.0219	204.7920
Total		**185.9403**	**0.9204**	**0.0231**	**215.8256**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	29.7646	1.7590	0.0000	73.7405
Unmitigated	29.7646	1.7590	0.0000	73.7405

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	7.5	1.5224	0.0900	0.0000	3.7718
Office Park	139.13	28.2421	1.6691	0.0000	69.9687
Total		**29.7646**	**1.7590**	**0.0000**	**73.7405**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	7.5	1.5224	0.0900	0.0000	3.7718
Office Park	139.13	28.2421	1.6691	0.0000	69.9687
Total		**29.7646**	**1.7590**	**0.0000**	**73.7405**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX F: NOISE IMPACT ANALYSIS

NOISE IMPACT ANALYSIS

9920 PIONEER BOULEVARD

CITY OF SANTA FE SPRINGS, CALIFORNIA

Prepared for:

EPD Solutions, Inc
Attn: Griffin Levinski
2 Park Plaza, Suite 1120
Irvine, CA 92614

Date:

October 23, 2019

Project No.: P19-028 N

NOISE SETTING

BACKGROUND

Sound is mechanical energy transmitted by pressure waves in a compressible medium such as air. Noise is generally defined as unwanted sound. Sound is characterized by various parameters that describe the physical properties of sound waves. These properties include the rate of oscillation (frequency), the distance between successive troughs or crests, the speed of propagation, and the pressure level or energy content of a given sound wave. In particular, the sound pressure level has become the most common descriptor used to characterize the loudness of an ambient sound level.

The unit of sound pressure ratioed to the faintest sound detectable to a young person with good acuity hearing is called a decibel (dB). Sound or noise can vary in intensity by over one million times within the range of human hearing. A logarithmic loudness scale similar to the Richter Scale for earthquake magnitude is therefore used to keep sound intensity numbers at a convenient and manageable level. The human ear is not equally sensitive to all sound frequencies within the entire spectrum. Noise levels at maximum human sensitivity from around 500 to 2,000 cycles per second are factored more heavily into sound descriptions in a process called "A-weighting," written as "dBA."

Leq is a time-averaged sound level; a single-number value that expresses the time-varying sound level for the specified period as though it were a constant sound level with the same total sound energy as the time-varying level. Its unit is the decibel (dB). The most common averaging period for Leq is hourly.

Because community receptors are more sensitive to unwanted noise intrusion during more sensitive evening and nighttime hours, state law requires that an artificial dBA increment be added to quiet time noise levels. The 24-hour noise descriptor with a specified evening and nocturnal penalty is called the Community Noise Equivalent Level (CNEL). CNEL's are a weighted average of hourly Leq's. The CNEL calculation adds a +5 dB "penalty" to Leq levels from 7 p.m. to 10 p.m., and +10 dB from 10 p.m. to 7 a.m. to account for the greater noise sensitivity during those hours.

NOISE STANDARDS

The State of California Office of Noise Control land provides land use compatibility recommendations that apply mainly to transportation activity noise impacts (vehicles, trains, planes, etc.) on adjacent land use. These guidelines are used in land use decisions because noise control from transportation is controlled by state or federal agencies and is not locally regulated.

An exterior noise exposure level of 65 dB CNEL is typically required for all noise sensitive uses such as residential use. Because office/commercial uses are not occupied on a 24-hour basis, the noise exposure recommendations for less sensitive land uses generally not stringent. There are typically no siting standards for industrial uses because they are not considered noise sensitive. State guidelines consider industrial uses to be "clearly compatible" with noise environments up to 75 dB(A) CNEL. The noise compatibility guidelines recommended 70 dB CNEL as "normally acceptable" for business commercial uses. Noise levels of up to 77.5 dB CNEL are considered "conditionally acceptable" and may be permitted if noise mitigation is included in the design.

Noise generated on one land use that impacts an adjacent use is generally regulated through the noise ordinance of the applicable jurisdiction. The City of Santa Fe Springs noise standards for stationary sources are presented in Table 1. Applicable noise standards must be met at the nearest property line. At a lot line separating receiving areas, the noise level is the calculated arithmetic mean of the two land uses. If the background already exceeds any of the specified levels in Table 1, the allowable thresholds are adjusted upward to equal the background.

The City's noise ordinance limits are stated in terms of a 30-minute limit with allowable deviations from this 50^{th} percentile standard. This noise level describes the noise that is exceeded during a certain percentage of the measurement period. For example, the L_{50} is the level exceeded 50% of the measurement period of thirty minutes in an hour. The larger the deviation, the shorter the allowed duration up to a never-to-exceed 20 dB increase above the 50^{th} percentile standard. For light industrial use, the property line noise standard is 70 dB L_{50} day time and night time.

In accordance with Section 155.425 of the Santa Fe Springs Municipal Code, construction related activities are exempt from noise regulations provided the activities take place during the hours of 7 a.m. to 7 p.m.

Regarding vibration the Municipal Code states that every use shall be so operated that the ground vibration generated by said use is not harmful or injurious to the use or development of surrounding properties.

Table 1

City of Santa Fe Springs Noise Standards

A-Weighted Sound Level in Decibels (dB(A))										
	Daytime (7:00 a.m. to 10:00 p.m.)					Nighttime (10:00 p.m. to 7:00 a.m.)				
	Maximum Cumulative Minutes Duration in Any 1-Hour Period				Absolute Maximum	Maximum Cumulative Minutes Duration in Any 1-Hour Period				Absolute Maximum
Receiving Area	30	15	5	1		30	15	5	1	
Outdoor Noise at Lot Line Of:										
Any school, church or hospital	45	50	55	60	65	45	50	55	60	65
Any other use										
In the A-1, R-1 or R-3 Zone	50	55	60	65	70	45	50	55	60	65
In the C-1 or C-4 Zone	60	65	70	75	80	55	60	65	70	75
In the ML, PF or BP Zone	60	65	70	75	80	60	65	70	75	80
In the M-1 or M-2 Zone	70	75	80	85	90	70	75	80	85	90
Residential Building Interior:										
In the A-1 or R-1 Zone	45	50	55	60	65	45	50	55	60	65
In the R-3 Zone	45	50	55	60	65	45	50	55	60	65
Sound levels at or above each decibel level given in the table shall not occur for a duration longer than that given in the corresponding column heading.										

- At a lot line separating receiving areas, the applicable permitted outdoor noise level shall be the arithmetic mean of the two receiving areas on opposite sides of said lot line.
- In the event the ambient noise level exceeds a permitted noise level, the permissible noise level shall be the ambient level.

EXISTING CONDITIONS

The project is located at 9920 Pioneer Boulevard, Santa Fe Springs, California in an urban location within southeast of downtown Los Angeles. The dominant and most consistent on-site noise source derives from vehicular on-road traffic from Pioneer Boulevard and Telegraph Road. Traffic noise is discernable onsite and in the nearby environs. Regional access is provided by Interstate 605 (I-605) to the west via Telegraph Road; and I-5 via Pioneer Boulevard or Florence Avenue.

Noise measurements were made in order to document existing baseline levels in the area. These help to serve as a basis to determine noise exposure from ambient noise activities upon the proposed project and the projects impact on surrounding uses. Short term (15-minute) noise measurements were conducted on Friday, June 7, 2019, at four locations from 2:20 p.m. – 3:50 p.m. Measurement locations are shown in Figure 1 and the monitoring results are summarized below.

Measured Noise Levels (dBA) and Meter Location

Meter	Location	Leq	Lmax	Lmin
Meter 1	Intersection of Pioneer Blvd and Alaree Ave by Site	**61.9**	72.4	40.3
Meter 2	Corner Arlee Ave and Smith Ave	**61.2**	70.0	41.5
Meter 3	Pioneer and Alburtis Ave by Athletic Field	**68.4**	86.1	50.5
Meter 4	Alburtis Ave in front of Townhomes II Borgo	**63.5**	77.9	49.5

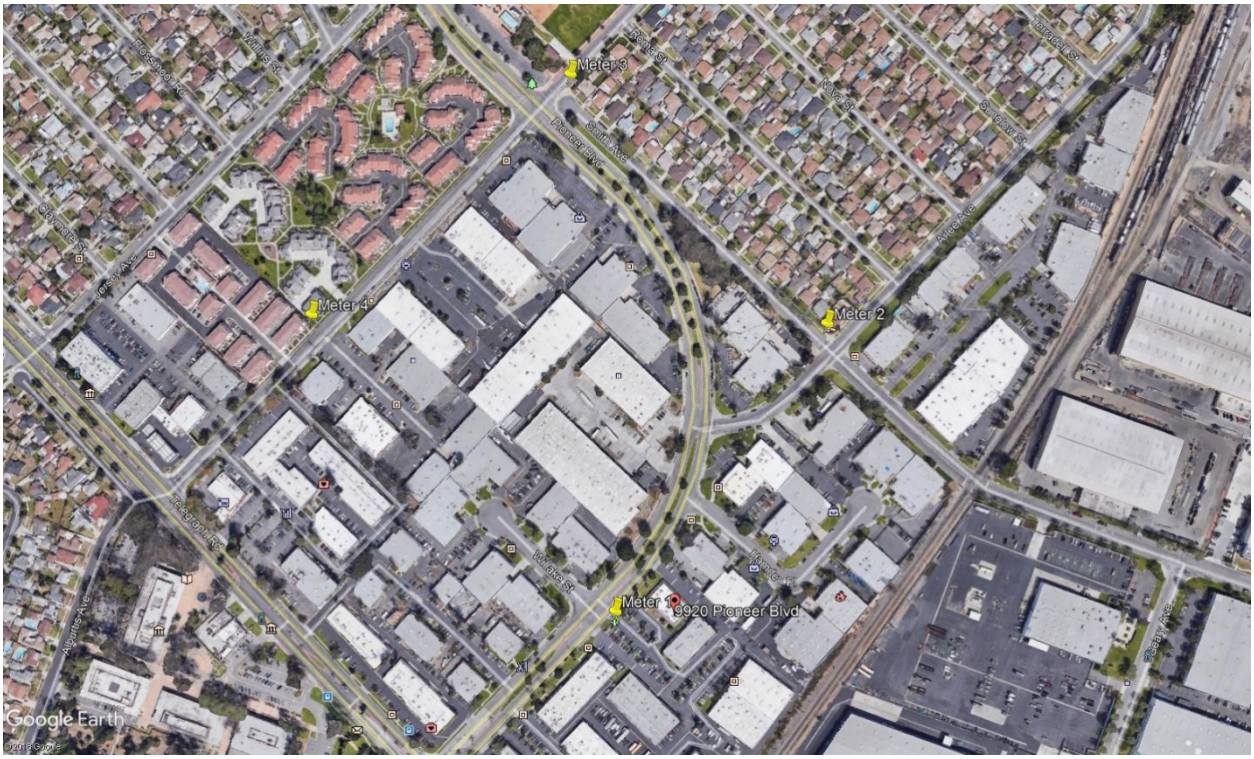
The observed Leq at the project site was almost 62 dBA. This would translate to a CNEL of 65-65 which is well within the appropriate business park use/light manufacturing compatibility guidelines.

Meters 2 and 3 were located north and northwest of the site at the closest residences. Meter 2, at the intersection of Smith Avenue and Arlee Avenue, is technically closer to the site than Meter 3, but has almost a 400-foot setback to the Pioneer Boulevard centerline. Meter 3 is also on Smith Avenue but closer to Pioneer Boulevard with an approximate 100-foot setback to the centerline. Meter 3 is also across the street from the Santa Fe Springs City Baseball Field.

As shown above, the observed noise level at Meter 2 was 61.2 dBA Leq, while closer to Pioneer Boulevard at Meter 3 the observed noise level was 68.4 dBA Leq.

Meter 4 was located along Alburtis Avenue near new housing, at the Il Borgo Townhomes approximately 450-500 feet north of the Telegraph Road centerline. The observed noise level at this location was 63.5 dBA Leq.

Figure 1
Noise Meter Locations



LAND USE NOISE IMPACTS

THRESHOLDS OF SIGNIFICANCE

According to the current CEQA Appendix G guidelines, noise impacts are considered potentially significant if they cause:

Noise impacts are considered significant if they result in:

a. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

b. Generation of excessive groundborne vibration or groundborne noise levels.

c. Excessive noise exposure for people residing or working in the project area if the is project is located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport.

There are no airports within any reasonable noise impact distance from the proposed project area.

A "substantial increase" is not defined by any responsible agency. The limits of perceptibility by ambient grade instrumentation (sound meters) or by humans in a laboratory environment is around 1.5 dB. Under ambient conditions, people generally do not perceive that noise has clearly changed until there is a 3 dB difference. A threshold of 3 dB is commonly used to define "substantial increase." An increase of +3 dBA CNEL in traffic noise would be consistent a potentially significant impact.

Two characteristic noise sources are typically identified with Project. Construction activities, especially heavy equipment, will create short-term noise increases near the project site. Such impacts may be important for possible nearby noise-sensitive receptors such as any existing residential uses. Upon completion, project-related traffic and operational noise may cause an incremental increase or decrease in area-wide noise levels throughout the project area. Because the proposed Project is not noise-sensitive and measured ambient noise is below 65 dBA CNEL, current noise environment is not an impediment for the siting the proposed use.

CONSTRUCTION NOISE IMPACTS

The US EPA has compiled data for outdoor noise levels for typical construction activities. These data are presented in Table 2. The noise levels shown in Table 2 represent composite noise levels associated with typical construction activities, which take into account both the number of pieces and spacing of heavy construction equipment that are typically used during each phase of construction. These noise levels would diminish rapidly with distance from the construction site at a rate of approximately 6 dBA per doubling of distance.

Table 2
Typical Outdoor Construction Noise Levels Construction Phase Noise Level (dBA, Leq)

Ground Clearing	84
Excavation	89
Foundations	78
Erection	85
Finishing	89

Source: EPA, 1971.

Temporary construction noise impacts will vary markedly because the noise strength of construction equipment ranges widely as a function of the equipment used and its activity level. The demolition and earth-moving sources are the noisiest, with equipment noise typically ranging from 75 to 89 dBA at 50 feet from the source.

Point sources of noise emissions are attenuated by a factor of 6 dB per doubling of distance through geometrical (spherical) spreading of sound waves. The quieter noise sources will drop to a 65 dBA exterior/45 dBA interior noise level by about 200 feet from the source while the loudest may require 800 feet from the source to reduce a 89-90 dBA source strength to a generally acceptable 65 dBA exterior exposure level. This estimate assumes a clear line-of-sight from the source to the receiver. Any partially or completed development will act as a noise barrier that will interrupt equipment noise propagation.

The closest sensitive uses to the site are 850 feet from the nearest property line. Distance attenuation will provide -25 dBA of mitigation, but there are also numerous intervening structures between the project site and any sensitive off-site uses. Therefore, due to distance separation and shielding from existing structures it is expected that project construction will be less than the ambient noise levels and less than the 65 dBA exterior and 45 dBA interior noise exposure levels.

Construction noise sources are not strictly relatable to a community noise standard because they occur only during selected times and the source strength varies sharply with time. The penalty associated with noise disturbance during quiet hours and the nuisance factor accompanying such disturbance usually leads to time limits on construction activities imposed as conditions on construction and use permits. The City of Santa Fe Springs Noise Code limits construction activity noise generation to the hours of 7 a.m. to 7 p.m. These hours are included as conditions on any project grading permits and these limits will serve to minimize any adverse construction noise impact potential.

VEHICULAR NOISE IMPACTS

The proposed project is forecast to generate 910 fewer daily trips than the existing uses, however peak hour traffic is predicted to be slightly higher. Therefore, the increase in noise due to peak hour project related impacts were calculated. Using data from the project traffic analysis the existing traffic volumes as well as the projected project traffic are shown in Table 3 for both the AM and PM peak hours.

Table 3
Peak Hour Area Traffic with and without Project

AM	**(vehicles per hour)**		**Project Noise Increase (dBA)**
Roadway Segment	Peak Hr Traffic	Proj Traffic	
Pioneer/ N of Willake	617	29	+0.2
Pioneer/ S of Willake	660	87	+0.5
Pioneer/N of Telegraph	679	145	+0.8
Pioneer/S of Telegraph	863	43	+0.2
Telegraph/ E of Pioneer	3,337	67	+0.1
Telegraph/W of Pioneer	3,279	35	+0.1
PM			**Project Noise Increase (dBA)**
Roadway Segment	Peak Hr Traffic	Proj Traffic	
Pioneer/ N of Willake	834	26	+0.1
Pioneer/ S of Willake	859	78	+0.4
Pioneer/N of Telegraph	881	130	+0.6
Pioneer/S of Telegraph	1,258	39	+0.1
Telegraph/ E of Pioneer	3,213	31	+0.1
Telegraph/W of Pioneer	3,308	60	+0.1

The largest possible project related increase is during the AM peak hour on Pioneer Boulevard north of Telegraph and is calculated to be +0.8 dBA. The increase from 679 to 824 (679+145) vehicles per peak hour could theoretically create a +0.8 dBA increase in noise levels (10 * log {824/679} = +0.8 dBA) which would be imperceptible to the human ear. Normally, a +3 dBA increase and above is considered significant. The next largest related traffic noise impact is less than +0.6 dBA. Therefore, the project will have minimal noise impact on area roadways.

SITE OPERATIONAL NOISE

The proposed use of light manufacturing could potentially generate more noise than a business park. The primary noise source would be at the loading dock. Buildings 2 and 3 are closest to the offsite sensitive uses. The proposed loading docks are located on the northern side of Buildings 2 and 3. With a distance separation of 850 feet as well as intervening structures (office park buildings between the two uses) it is unlikely that project operational noise will be perceptible at the closest off-site use.

The published noise maximal noise level for a forklift is 75 dBA but that assumes back up alarms. Results show that elimination of the tonal characteristic of the `beeper' would reduce forklift noise levels by around 3dBA.[1] A flat-bed truck has a noise level of 74 dBA Lmax. Together with a forklift this could create a combined noise level of 76 dBA at 50 feet. Distance would provide 25 dBA of noise attenuation, and the intervening structures would provide at least 3 dBA of attenuation. The

[1] https://www3.northamptonshire.gov.uk/councilservices/environment-and-planning/planning/planning-applications/documents/PDF%20Documents/Minerals%20and%20Waste%20Apps/14.00081.WASFUL-NoiseAssessment.pdf

resultant noise level of 48 dBA Leq would be lower than the measured noise level at the closest off-site use.

SUMMARY

Construction activities from project development is not expected to impact surrounding residential uses. Such impacts are mitigated by required compliance with grading/construction permits. These considerations include:

- The hours of construction operation shall be limited to be between the hours of 7 a.m. to 7 p.m.
- Staging areas shall be located away from existing residences.
- All construction equipment shall use properly operating mufflers.

The project noise impact study indicates a less-than-significant noise impact from project-related traffic on project vicinity receptors. Not only is peak hour project traffic small, but the number of vehicles currently operating on area roadways is very large compared to project traffic.

The new light manufacturing zoning could generate more noise than a business park. However, because of the distance separation to the nearest sensitive use, an 8-foot property line wall and intervening structures noise will not be perceptible at any off-site sensitive locations.

APPENDIX G: PHASE I ENVIRONMENTAL SITE ASSESSMENT

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Santa Fe Springs Commerce Center
Santa Fe Springs, California 90670

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April 5, 2019

TABLE OF CONTENTS

Executive Summary iii

1. introduction 1
- 1.1. Objective 1
- 1.2. Scope of Services, Methodology and Limitations 2

2. Site DESCRIPTION 3
- 2.1. Site Setting 3
- 2.2. Regional Geology and Hydrogeology 3

3. user provided information 5
- 3.1. Title Records 5
- 3.2. Owner Knowledge 5
- 3.3. Environmental Liens or Activity and Use Limitations 5

4. Site use and history 5
- 4.1. Sanborn Maps 5
- 4.2. Aerial Photograph Review 6
- 4.3. Topographic Maps 7
- 4.4. EDR City Directory Review 8
- 4.5. Summary 13

5. Prior Investigations 13
- 5.1. Partner ESA, 2014 13
- 5.2. ENVIRON, 2004 14
- 5.3. HMC, 2014 15
- 5.4. HMC, 2016 16

6. Site Reconnaissance. 17
- 6.1. Site Vicinity 20

7. Regulatory Agency database Research 20
- 7.1. Database Records Concerning the Target Property 21
- 7.2. Database Records Concerning the Site Vicinity 22
- *7.3.* Orphan Sites 24
- 7.4. Summary of Off-Site Issues 24
- 7.5. Tribal Records 24
- 7.6. Oil and Gas Wells 24
- 7.7. State of California 24
- 7.8. City of Santa Fe Springs Fire Department 25
- 7.9. South Coast Air Quality Control Management District 26
- 7.10. City of Santa Fe Springs 26
- 7.11. Los Angeles Regional Water Quality Control Board 26

8. VAPOR INTRUSION, Asbestos and other Materials 26
- 8.1. Vapor Intrusion 26
- 8.2. Asbestos 26

8.3. Radon 27
8.4. Mold 27
9. Summary of Findings 27
10. Data Gaps 29
11. Conclusions 29
12. Recommendation 29
13. QUALIFICATIONS 31
14. References 32

TABLE

Table 1 Summary of Facilities in Site Vicinity

FIGURES

Figure 1 Street Map
Figure 2 Site Map
Figure 3 Plugged Oil Well and Former Sump Map

APPENDICES

A – Site Photographs
B – EDR Historical Reports
C – Previous Site Evaluations

Executive Summary

Hazard Management Consulting, Inc. (HMC) is pleased to submit this Environmental Site Assessment (ESA) for the property referenced above in the city of Santa Fe Springs, California (Site) (Figures 1 & 2). This ESA is intended to evaluate the Site for potential Recognized Environmental Conditions (RECs) that may be present at the Site and was conducted as part of your proposed redevelopment of the Site. The Site is located on the east side of Pioneer Boulevard in Santa Fe Springs, CA and includes approximately 9.06 acres of land. The Site is a square shaped parcel and contains 7 concrete tilt up buildings with various tenants occupying office and warehouse space. The current uses of the Site by these tenants include adult care, office, industrial, and laboratory uses. The Site is located in the middle of an industrial and manufacturing district with nearby land uses including industrial, office, and residential. The Site is relatively flat with an elevation of approximately 130' feet above mean sea level (msl).

The Site is bound:

- on the north by an audio service company and a tire recycler;
- on the east by a rail road line across which are two industrial equipment supplies companies and a corrugated metals design facility;
- on the south by three industrial office and warehouses; and,
- on the west by Pioneer Blvd across which are industrial buildings in a business park type setting.

Key findings of this Phase I ESA are as follows:

- The Site was historically an oilfield until the 1970's when the Site was redeveloped into its current orientation and used as an industrial business park. The Site included 7 oil wells as well as several oil field sumps in addition to pipelines that would typically connect the wells to above ground storage tanks.
- The Site was redeveloped at a time that environmental regulations and control were not as stringent as are present today. There were requirements for abandonment of oil wells and geotechnical requirements for development that would have likely precluded leaving oil field sumps in place. Redevelopment of the Site would have likely included removal of more liquid material that may have been present while using impacted soil during the grading effort.
- The City of Santa Fe Springs Fire Department was involved and oversaw the oil field closure aspects as part of the redevelopment efforts at the Site. Soil sampling was conducted as part of the redevelopment and a report was submitted which documented

the concentrations of petroleum hydrocarbons present in soil at the Site. Methane gas sampling was also conducted which reported generally low concentrations. The Fire Department approved that the impacted soil could be left in place provided it remained capped by the paved parking lot and building foundations. A No Further Action status was approved for the Site by the Fire Department.

- There have been previous subsurface investigations conducted at the Site after the redevelopment as part of various due diligence investigations. The results of those investigations document the presence of soil in areas of the Site consistent with the previous closure determination of the Fire Department.
- In the Fire Department closure letter, they reference that changes in the Site conditions would need their further review. Redevelopment of the Site will entail movement of the residually impacted soil at the Site under potentially more stringent regulatory requirements. However, petroleum hydrocarbons do degrade with time so that the current concentrations may be less than what was documented in the previous subsurface investigations at the Site.
- The oil wells that were abandoned will need to be evaluated as part of any redevelopment to assess whether the Division of Oil and Gas will require that they be reabandoned to current standards. This will include an updated methane gas survey which will be important for both the oil well abandonment evaluation but also to assess whether a methane gas mitigation system will be necessary as part of the future development.
- The historical oil field uses of the Site and remedial actions taken represent a Historic and Controlled REC in our judgment.
- The buildings on Site are used for a variety of primarily office related uses with minimal chemical usage. The following facilities were noted exceptions:
- The 10016 building contains a roofing and construction company named Klondike Construction that stores chemicals such as roofing tar, elastic cement, asphaltic materials and unknown materials in drums in the warehouse. Two unmarked 55-gallon drums were noted in the warehouse as well as used automotive batteries. This company also stores tar laden gravel in piles in an open area behind building 10010 on property owned by the City of Santa Fe Springs. While there were no significant stains, all of their chemical waste should be removed prior to their vacating the premises.
- Several unlabeled 55-gallon drums were noted in the parking area north of the Bontek Inc. space at the 10020 Building. The drums did not appear associated with any specific tenant.
- What appeared to be methane vent pipes consistent with a methane mitigation system was noted along the 10020 Building wall. The owner was not aware and there were no plans or documentation of the construction of this feature found during this assessment.

- While there were chemicals used, there were no RECs noted from the current use of the Site.
- The Site is located in an area that has historically had light industrial and manufacturing uses. While chemicals were used and some releases occurred, none were close enough or in the correct orientation to be a threat to the Site with the exception of Omega Chemical Corporation. This facility contributed to a large groundwater chlorinated solvent plume that originates 2.6 miles to the northeast and heads southwest toward the Site before turning south. The western border of this plume may extend onto the Site. There has been no data to date to suggest that the Site may have contributed to the Omega Plume and as such, we would not consider it to be an REC to the Site.
- There were no RECs found from off Site sources.
- HMC previously reviewed the prior reports for the Site and prepared an environmental evaluation which included recommendations for actions to take with regards to future development of the Site. They included:
  - a "Site Plan Review" should be undertaken to assess whether re-abandonment to current standards for the plugged oil wells at the Site is necessary;
  - Prepare and implement a Soil Management Plan for the impacted soils at the Site as well as for possible surprises that could be found during grading; and,
  - Based on the results of the soil gas survey, a methane mitigation system may be necessary as part of future construction.
- There has been no new information to alter or change these overall recommendations for redevelopment. We do recommend that an updated Site assessment including a methane gas survey be conducted at the Site to aid in the development of the SMP as well as to assess whether a methane mitigation system will be needed at the Site.

Conclusions

HMC has conducted a Phase I ESA for the Site in accordance with the ASTM E1527-13 guidelines. Based on the results of our research and available data, there were no RECs noted at the Site.

However, the Site was part of an oil field and remedial actions were taken to close the oil wells and soil sampling confirmed the presence of elevated concentrations of hydrocarbons in soil that was allowed to remain in place by the City of Santa Fe Springs Fire Department. The historic oil field operations would be considered a HREC, and CREC in our judgment

While not an REC per the ASTM definition, given the age of the building, it is likely that asbestos containing materials are present at the Site.

Recommendation

Given the findings of this ESA, we recommend that:

- A subsurface investigation be conducted across Site to assess the current concentrations of hydrocarbons and arsenic that were previously reported at the Site as well as a soil gas survey to assess the potential for methane gas and volatile organic compounds that may be present.
- HMC has previously offered recommendations with regards to actions that will be necessary to allow development of the Site. They include:
  - a "Site Plan Review" should be undertaken to assess whether re-abandonment to current standards for the plugged oil wells at the Site is necessary;
  - Prepare and implement a Soil Management Plan for the impacted soils at the Site as well as for possible surprises that could be found during grading; and,
  - Based on the results of the soil gas survey, a methane mitigation system may be necessary as part of future construction.
- The two unmarked 55-gallon drums in the Klondike warehouse should be identified and stored properly. The batteries noted in the warehouse should be recycled or stored properly if still in use. The tar laden piles belonging to Klondike Construction should be properly stored.
- The four 55-gallon drums of paint in the parking lot north of the tire recycler should be removed from the Site by the owner of those drums.
- An asbestos survey should be conducted to assess potential asbestos containing materials that may be present at the Site that will need to be abated prior to demolition.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
Santa Fe Springs Commerce Center
Santa Fe Springs, California 90670

1. INTRODUCTION

Hazard Management Consulting, Inc. (HMC) is pleased to submit this Environmental Site Assessment (ESA) for the property referenced above in the city of Santa Fe Springs, California (Site) (Figures 1 & 2). This ESA is intended to evaluate the Site for potential Recognized Environmental Conditions (RECs) that may be present and was conducted as part of your proposed acquisition of the Site. The Site is located on the east side of Pioneer Boulevard in Santa Fe Springs, CA and includes approximately 9.06 acres of land. The Site is a square shaped parcel and contains 7 concrete tilt up buildings with various tenants occupying office and warehouse space. The current uses of the Site by these tenants include adult care, office, industrial, and laboratory uses. The Site is located in the middle of an industrial and manufacturing district with nearby land uses including industrial, office, and residential. The Site is relatively flat with an elevation of approximately 130' feet above mean sea level (msl).

1.1. Objective

In accordance with the ASTM E 1527-13 Standard Practice for Environmental Site Assessments, the objective of the ESA is to assess, to the extent feasible under the standard, the likelihood that Recognized Environmental Conditions (RECs), as defined by ASTM, are present at the Site.

A Recognized Environmental Condition "means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies" (ASTM Standard Practice E1527-13). Performance of a Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for Recognized Environmental Conditions in connection with a property, within reasonable limits of time and cost.

All Appropriate Inquires (AAI) as defined in the Final Rule (40 CFR, Part 312), must be conducted by persons seeking the landowner liability protections under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) prior to acquiring a property or seeking or receiving federal brownfields grants under the authorities of CERCLA. The purpose of AAI, as defined in the AAI Final Rule, is to identify releases and threatened releases of hazardous substances, which cause or threaten to cause the incurrence of response costs. The U.S. Environmental Protection Agency (EPA) has stated that ASTM Standard E-1527-13 is consistent with the Standards and Practices for AAI and is compliant with the statutory criteria for AAI.

1.2. Scope of Services, Methodology and Limitations

The findings of this ESA must be viewed in recognition of certain limiting conditions. The scope of work commissioned for this project does not represent an exhaustive study, but rather a reasonable inquiry, consistent with good commercial practice, in general accordance with ASTM Practice E-1527-13.

The scope of work for this ESA included the following activities:

- A site walk to document the current condition of the Site and neighboring facilities.
- Review of a regulatory database report.
- Interviews with the User of this report and submittal of a questionnaire to the Owner of the Site.
- Review of historical references including aerial photographs, city directories, Sanborn Maps and topographic maps.
- On-line research and file reviews concerning the Site and suspect off site sources at the Office of the City Clerk in the City of Santa Fe Springs, State of California Regional Water Quality Control Board (RWQCB), and Department of Toxic Substances Control (DTSC) websites.
- Review of hard copy files maintained by the City of Santa Fe Springs Fire Department.
- Preparation of this report of findings.

In the course of this assessment, HMC has relied on information provided by outside parties, such as regulatory agencies, previous reports and interview sources. For the purpose of this assessment, such third-party information is assumed to be accurate unless contradictory evidence

is noted, and HMC does not express or imply any warranty regarding information provided by third-party sources.

2. SITE DESCRIPTION

2.1. Site Setting

The Site is located on the east side of Pioneer Boulevard in Santa Fe Springs, CA and includes approximately 9.06 acres of land. The Site is a square shaped parcel and contains 7 concrete tilt up buildings with various tenants occupying office and warehouse space. The current uses of the Site by these tenants include adult care, office, industrial, and laboratory. The Site is located in the middle of an industrial and manufacturing district with nearby land uses including industrial, office, and residential. The Site is relatively flat with an elevation of approximately 130' feet above mean sea level (msl).

The Site is bound:

- on the north by an audio service company and a tire recycler;
- on the east by a rail road line across which are two industrial equipment supplies companies and a corrugated metals design facility;
- on the south by three industrial office and warehouses; and,
- on the west by Pioneer Blvd across which are industrial buildings in a business park type setting.

2.2. Regional Geology and Hydrogeology

The Site lies within the Central Basin of the Coastal Plain of the Los Angeles Groundwater Basin. Throughout the Central Basin, groundwater occurs in Holocene and Pleistocene age sediments at relatively shallow depths. The Central Basin is historically divided into the forebay and pressure areas. The Los Angeles forebay is located in the northern part of the Central Basin where the Los Angeles River enters the Central Basin through the Los Angeles Narrows from the San Fernando Groundwater Basin. The Montebello forebay extends southward from the Whittier Narrows where the San Gabriel River encounters the Central Basin and is the most important area of recharge in the subbasin. Both forebays have unconfined groundwater conditions and relatively interconnected aquifers that extend up to 1,600 feet deep to provide recharge to the aquifer system of this subbasin (DWR 1961). The Whittier area extends from the Puente Hills south and southwest to the axis of the Santa Fe Springs-Coyote Hills uplift and contains up to 1,000 feet of freshwater-bearing sediments. The Central Basin pressure area is the largest of the four divisions and contains many aquifers of permeable sands and gravels separated by semi-permeable to impermeable sandy clay to clay, that extend to about 2,200 feet below the surface (DWR 1961). The estimated average specific yield of these sediments is around 18 percent. Throughout much

of the subbasin, the aquifers are confined, but areas with semipermeable aquicludes allow some interaction between the aquifers (DWR 1961).

The main productive freshwater-bearing sediments are contained within Holocene alluvium and the Pleistocene Lakewood and San Pedro Formations (DWR 1961). Throughout most of the subbasin, the near surface Bellflower aquiclude restricts vertical percolation into the Holocene age Gaspur aquifer and other underlying aquifers and creates local semi-perched groundwater South Coast Hydrologic Region California's Groundwater Coastal Plain of Los Angeles Groundwater Basin Bulletin 118 Last update February 27, 2004 conditions. The main additional productive aquifers in the subbasin are the Gardena and Gage aquifers within the Lakewood Formation and the Silverado, Lynwood and Sunnyside aquifers within the San Pedro Formation (DWR 1961). Specific yield of deposits in this subbasin range up to 23 percent in the Montebello forebay, 29 percent in the Los Angeles forebay, and 37 percent in the Central Basin pressure area (DWR 1961). Historically, groundwater flow in the Central Basin has been from recharge areas in the northeast part of the subbasin, toward the Pacific Ocean on the southwest. However, pumping has lowered the water level in the Central Basin and water levels in some aquifers are about equal on both sides of the Newport-Inglewood uplift, decreasing subsurface outflow to the West Coast Subbasin (DWR 1961).

Groundwater enters the Central Basin through surface and subsurface flow and by direct percolation of precipitation, stream flow, and applied water; and replenishes the aquifers dominantly in the forebay areas where permeable sediments are exposed at ground surface (DWR 1961). Natural replenishment of the subbasin's groundwater supply is largely from surface inflow through Whittier Narrows (and some underflow) from the San Gabriel Valley. Percolation into the Los Angeles Forebay Area is restricted due to paving and development of the surface of the forebay. Imported water purchased from Metropolitan Water District and recycled water from Whittier and San Jose Treatment Plants are used for artificial recharge in the Montebello Forebay at the Rio Hondo and San Gabriel River spreading grounds (DWR 1999). Saltwater intrusion is a problem in areas where recent or active river systems have eroded through the Newport Inglewood uplift. A mound of water to form a barrier is formed by injection of water in wells along the Alamitos Gap (DWR 1999) (CDWR, 2004).

Water levels varied over a range of about 25 feet between 1961 and 1977 and have varied through a range of about 5 to 10 feet since 1996 (CDWR, 2004). A groundwater report from a facility cross gradient to the Site approximately 1,500' to the west-southwest indicated groundwater flows to the south (BGR, 2018).

3. USER PROVIDED INFORMATION

The User of this report is EPD Solutions, Inc. and the Brookhollow Group. We were able to interview Ms. Alice Kim, the property manager with The Brookhollow Group who also provided a tour of the facility and was able to address our questions. We were also provided historic title reports and documents that the Owner had available.

3.1. Title Records

A Preliminary Tile Report was prepared for The Brookhollow Group for the Site by the Chicago Title Company and was provided for our review as part of this investigation. Title is said to be vested in KOLL/PER Santa Fe Springs, LLC. The Title Report reflects the land use restriction put in place by the Santa Fe Springs Fire Department. No other information of an environmental nature was noted in this report.

3.2. Owner Knowledge

As part of our Site investigation, we were provided a completed Owner/ Operator Questionnaire from Ms. Alice Kim. Ms. Kim was unaware of any active environmental investigations or cleanups, areas of disposal or release on site or any ongoing remedial efforts. She also indicated that she was unaware of any Notice of Violations or potential environmental administrative or legal action pending.

3.3. Environmental Liens or Activity and Use Limitations

The soil at the Site has been assessed in previous subsurface investigations and results indicated elevated levels of petroleum hydrocarbons and arsenic. The Santa Fe Springs Fire Department granted a No Further Action letter under the condition that the soil at the Site remain capped by the existing paved parking lot and the building foundations and that Site uses are restricted from sensitive uses such as schools, hospitals and day care centers among others. A formal Land Use Covenants was recorded against the Title for the Site.

4. SITE USE AND HISTORY

Past usage of the subject site was assessed through a review of historical aerial photographs, topographic maps and an EDR search of city directories and prior reports. Review of the Sanborn Map collection indicates that Sanborn Maps were not produced for the Site.

4.1. Sanborn Maps

Sanborn maps are maps that were created for the insurance industry to document site activities in metropolitan areas of the country and were used in underwriting. They often times contain detailed information about a site. While they were prepared for insurance underwriting and were

not environmental maps per se, they often times contain information that is useful in evaluating the historical use of a Site. There was no reported Sanborn Coverage for the Site.

4.2. Aerial Photograph Review

Aerial photographs covering the Site were obtained from Environmental Data Resources, Inc. (EDR). Photographs were available from the period 1928 through 2016. Copies of the aerial photographs are included in Appendix B. A summary of the observations noted from the aerial photography is as follows:

1928 The Site was noted to be in use as part of an operating oil field. Two to three derricks are seen in the northeast and southwest corners of the Site as well as three sumps confined to the southwest corner. Oil field operations were present in all directions in the vicinity of the Site. A railroad feature was noted immediately to the east of the Site. The land immediately south of the Site was noted to have agricultural activity between two derricks.

1938 Three pump jacks were observed in the photograph from 1938 in the north, east, and western portions of the Site with three sumps located in the south. Oil production and agriculture continued in the Site vicinity. No other changes were noted.

1947 An oil derrick was present in the northeast corner of the Site. No other changes to the Site or the immediate vicinity were noted.

1953 An additional oil derrick was seen along the eastern border of the Site. Only one small sump was noted in the southwest corner of the Site. No other changes were noted to the Site or the immediate vicinity.

1963 Only one derrick was noted along the eastern border of the Site as well as the small sump in the southwest corner. Agricultural activity in the Site vicinity is no longer present. No other changes to the Site or the immediate vicinity were noted.

1970 Oil production activities at the Site are noted to no longer take place and the Site was noted to be vacant land. A refinery was noted to the east of the Site. The north and south properties were also noted to be vacant land. Oil

production equipment is still noted to the west of the Site. No other changes are noted at the Site or the immediate vicinity.

1977 Significant changes were noted at the Site including the addition of seven industrial structures which are present today. The parking area around the buildings appears to be asphalt paved and ribbon drainage features are seen in the photograph. Industrial buildings are noted on the property immediately to the north and south as well as across Pioneer Boulevard to the west. No other changes are noted to the Site or the immediate vicinity.

1983 No changes were noted to the Site in this photograph. The area where industrial buildings across Pioneer Boulevard to the west were previously noted has had a number of additional buildings added to a business park type environment. The property to the north is also noted to have several additional industrial buildings. The refinery to the east is no longer seen but five ASTs are still noted in the area it once occupied. No other changes were noted in the immediate vicinity of the Site.

1989 No changes to the Site were noted in this photograph. To the east, four industrial buildings are now seen in the orientation they currently occupy. Just beyond these buildings two of the five ASTs previously noted were still present. No other changes were noted in the immediate Site vicinity.

1994 No changes to the Site were noted in this photograph. The two remaining ASTs previously noted were no longer seen. No other changes were noted in the immediate Site vicinity.

2002-16 No changes to the Site or the immediate vicinity were seen in these photographs.

4.3. Topographic Maps

Historical topographic maps were also reviewed as part of this effort and aided in interpreting the overall site history. Topographic maps were produced for the Site with dates ranging from 1896 to 2012. The Site was noted to be undeveloped land in the immediate vicinity of a rail road feature in 1896. This feature is still present. The maps also documented the historic oil production field

at and near the Site over many years. No specific information was obtained beyond that seen in the aerial photographs for the Site.

4.4. EDR City Directory Review

EDR performed a search of the City Directory records for the Site address at approximately five-year intervals. The City Directory listings included the following information:

9920 Pioneer Blvd.

Year	*Uses*
2006	Social
	Vocational SVCS
1995	Coastal Communities Hospital Day Treatment
	Coastal Connection Dur.
1981	Healthplan of California-Laboratory Santa Fe Springs

9926 Pioneer Blvd.

Year	*Uses*
2014	L Tech Network Services Inc.
	Cypress Security LLC
	AC Audio Services
	L Tech Professional Svcs Inc.
	Golden Star Development
2010	L Tech Professional Svcs Inc.
	Bantek West Inc.
	Frontier Building Maintenance
	L Tech Network Services Inc.
	Visual Insight
2006	Bantekwest Inc.

9930 Pioneer Blvd.

Year	*Uses*
2014	California Cabinet
	A&A Brothers Cabinets & More
	Apria Healthcare LLC
	Fast Undercar
	HN Plus Inc.
	Management Office LLC

2010	California Cabinet
	HN Plus Inc.
	Fast Undercar
	Apria Healthcare Inc.
	A&A Brothers Cabinets & More
	CCDS Development Inc. A Corp.
2006	CDS Builders Inc.
	Colorcom Inc.
1995	Victoria's Treasures
	Golden Apparel
	Victorino, Francisco
1990	Carrier Clearing Services SF SPS
1986	Carrier Clearing Services SF SPS
1981	Carrier Clearing Services SF SPS
1980	Carrier Clearing Services SF SPS

10002 Pioneer Blvd.

Year	***Uses***
2014	Paradice Exposition Services
	Frontier Building Maint. Inc.
	Valley Maintenance Corp.
	Tri State Escobar
	K&S Apparel Inc.
	Hobby Hub
	Newstone Products Inc.
2010	International Food Service
	Newstone Products
	Kyong Hwan
	Christy Fashion
	Tri State Escobar
	One Stop Printing 15
	Precision Scale
	K&S Apparel Inc.
	Premier Class Insurance Svc.
	Nobel House Inc.
	Seung & Hee Corporation
	Paradice Exposition Services

	John Nathan Villlagrana XXX XX
2006	Corporation
	Seung & Hee
	DA E Instruments
	Onestopprinting & Graphics
	Premier Class Ins.
	Salem, Paul
	Noblehouseinc

10010 Pioneer Blvd.

Year	*Uses*
2014	Summerhill Technology Corp.
	Noble House Inc.
2010	Summerhill Technology Corp.
2010	R3 Safety LLC
	California F S
	Sealing Solutions Corp.
2006	Rentacrate Inc.
	Sales
	Technology Corp. Unitd. American
	Summerhill

10016 Pioneer Blvd.

Year	*Uses*
2014	Carols Cafe
	Source One Payment Solutions
	Dead and Wanted Designs
	A to Z Environmental Services
	Gold Coast Appraisals Inc.
	Mid-Valley Engineering
	Ninos Latino Unidos FSA
	A&D Transportation LP
	Stevens David A C P A
	El Dorado Archers
	Pixel Perfect Designs
	Koll Company
	Meta Movement Entertainment

	AJK Communications
	Klondike Constructions Svcs Inc.
	SE Builders Inc.
2010	DAE Instruments & Service
	Air West Mechanical Cnstr Inc.
	Marxmen
	SSI
	Knight Melody
	Beneffence Inc.
	Baja Pirates LLC
	Saeor Latino Marketing & Promo
	Popa Mike Enterprises Inc.
2010	Con-Rak Erectors Inc.
	Koll Co. Pico RW
	Pabisan USA Inc.
	Jaime Martin Velarde
	SCA Ovreatrs Anymus Howintgrp
	Pixel Perfect Designs
	Stevens David A C P A
	Ninos Latino Unidos FSA
	Sabor Latino Promotions & Mark
	Southern Cal. Ovrters Anonymous
	Carol's Cafe
	KVA Enterprise
	Source One Payment Solutions
2006	CPA Suzette Moreno & Associates
	Target Electric
	Security Teamone
	Security U 8 SINC
	Services
	Sports Rehbltn Stevens David A
	Payment
	The Sourceone
	Sandwich Place
	Graphics Sabor Latino
	Design & Prinitng Red Star
	Options Pixel Perfect

	Unidos Personnel
	A Assocs. Ninos Latino
	Moreno, Suzette
	Koll Company
	Galaxy Wood Inc.
	Enterprises Inc. Forms Desk The
	Elizalde
	Inc. Digital EFX
	Conrak Erectors
	Anonymous
2006	Eaters
	Hydromatix Compulsive
	Boc, Edwards
	Secrty
	International
	Network Inc. Alliance
	Building Advanced
	Solutions Southrn CA
1995	SSI
	Government Information Systems
	Carlisle Travel
	Spirax Sarco Inc.
1990	Bijur Lubricating Corp. Santa Fe Springs
	Buffalo Forge Co. Santa Fe Springs
1986	Bijur Lubricating Corp. Santa Fe Springs
	Buffalo Forge Co. Santa Fe Springs
1981	Bradshaw Foodservice Santa Fe Springs
	Thunderbird Marketing Corp. Santa Fe Springs

10020 Pioneer Blvd.

Year	***Uses***
2014	Applied Biocode
	Maxwell Sensors
	Bontek
2010	Ballanda Corp.
	Maxwell Sensors Inc.
	Applied Biocode

PDL Concepts

American Packers and Shippers

4.5. Summary

The Site and immediate Site vicinity were historically located in an oil field from the earliest aerial photograph in 1928 until the 1970's when the Site was developed into an industrial building complex. The Site was originally built into the current orientation in which it stands today. The Site was subsequently used by various tenants occupying offices and warehouses for operations including but not limited to adult care, medical device R&D, and construction offices. The past use as an oil field is considered a Historical Recognized Environmental Condition (HREC).

5. PRIOR INVESTIGATIONS

There have been various previous investigations conducted at the Site as follows.

5.1. Partner ESA, 2014

Partner prepared a Phase I ESA report for the Santa Fe Springs Commerce Center for US Bank dated February 14, 2014 consistent with ASTM standards. This included a review of the historical, then current and neighboring uses to assess whether there were RECs present at the Site. This report summarized the Site setting as similar to our findings and other previously prepared reports Partner also identified tenants that are discussed in the body of this report.

Partner identified several findings during their investigation, as follows:

- The seven oil wells that are currently abandoned on the Site as well as associated sumps where drilling material potentially contaminated with petroleum and drilling chemicals would have been kept. The possibility that these materials were stored on Site is noted. From review of the report, it appears Partner was unaware of the prior subsurface investigations nor the closure granted by the City of Santa Fe Springs,

- The former Omega Chemical Company is noted in the findings of this report. Partner describes this facility as having been responsible for creating a chlorinated solvent plume in groundwater and is being investigated under the Superfund laws and oversight of the Environmental Protection Agency. This facility was noted to be upgradient from the Site but due to clean-up actions, the responsible party identified, and the relative distance from the Site it was determined that this likely does not pose a concern to the Site.

- Partner identified the former Euro Industries as a historical recognized environmental condition. The report describes the sampling and removal of tanks and a clarifier that occurred as discussed in the body of this report as well as the No Further Action status obtained. No further assessment of this former facility was considered necessary.

- Partner discussed the use of chemicals associated with the commercial and light industrial tenants at the Site but concluded that due to the lack of evidence that these uses have affected the Site they do not expect these to pose an environmental concern.

- Suspect asbestos contain materials were observed on Site and the report recommended sampling to identify the content of ACMs if these materials were to be disturbed.

- Methane and hydrogen sulfide emissions were identified as a potential concern due to the presence of abandoned wells on site and in the vicinity of the Site. Methane vent pipes were observed at the 10020 Building and were noted to be used to assist with remediation at the Site. Partner did not consider this an environmental concern at the time but noted testing and additional remedial measures may be required if the Site was to be redeveloped.

Partner concluded with one recommendation to conduct subsurface sampling to assess the presence of soil contamination from historical uses of the Site. Again as noted, it appears Partner did not have any of the previous reports including the Environ report described below.

5.2. ENVIRON, 2004

A Phase I and Phase II ESA was prepared by ENVIRON International Corporation for the Koll Company for the Santa Fe Springs Commerce Center. Koll was noted to have acquired the Site in 1989. The report states that the Site was developed into its current configuration in 1974 and was previously used as farm or pasture land from 1947 until 1973 as well as oil production from at least 1923 until 1934.

The report identified two areas of concern at the Site, as follows:

- The seven abandoned oils wells adjacent or under the 9930, 10010, and 10016 Buildings, and
- A waste chemical storage room associated with the Harshaw Chemical Company.

Based on their findings the report noted that a methane gas survey would be required by the City. The survey was performed by Environ and the survey resulted in one probe to have tested positive for the presence of methane gas therefore requiring three quarterly monitoring events and annually thereafter.

Environ also performed a soil investigation near the southeastern corner of the 10016 Building where the waste chemical storage room was noted to be located. Elevated levels of arsenic and petroleum hydrocarbons were found. The report notes that previous investigations were performed by Levine Fricke who recommended a deed restriction be place upon this area of the Site. The deed restriction required this area remained capped was approved by the fire department.

The report also identified three non-ASTM conditions and recommendations at the Site, as follows:

- Asbestos containing materials were observed during their investigation. Noted renovations took place in 1989 and 1992 where ACMs were abated but additional observations were made by Environ. An O&M plan was recommended to be developed for the Site

- Lead based paint was assumed to be present at the Site and was noted to be in good condition. They concluded that abatement was not necessary at the time. The report did recommend sampling of this material to take place if renovations or remodeling were to take place.

- The report identified light ballast as possibly being PCB containing and recommending that replaced ballasts should be properly disposed of by a qualified contractor. This year of construction, 1974, was cited for this reasoning.

The report concluded that there were no concerns regarding the current tenants but those that are known to use and store chemicals should be closely monitored. Off Site facilities were not regarded as concerns to the Site.

5.3. HMC, 2014

In a report prepared for AEW, one of the members of the Owners group dated March 6, 2014, HMC evaluated the Phase I ESA prepared by Partner Environmental as noted above. This ESA raised concerns about the historic use of the Site as an oilfield. The evaluation notes that Partners concerns have been previously addressed during two subsurface investigations performed by

Environ and LFR. The subsurface reports indicated that elevated levels of petroleum hydrocarbons and arsenic exist in the soil near the 10020 building at the Site consistent with oilfield waste in sumps. Methane sampling was also included in the investigation and yielded low concentrations. These investigations were overseen by the City of Santa Fe Springs Fire Department. The Fire Department approve that the soil be left in place provided it remains capped by the paved parking lot and building foundations. A No Further Action status was approved for the Site by the Fire Department.

5.4. HMC, 2016

In a report dated March 6, 2014, HMC outlined several issues that would need to take place if the Site was to be redeveloped. They include:

- Potential re-abandonment of the abandoned oil wells to current standards;
- Preparation and implementation of a Soil Management Plan;
- Potential surprises that could be encountered during grading; and,
- Potential methane mitigation systems for future construction.

Potential re-abandonment of the abandoned oil wells to current standards

The report describes the potential for further oil well abandonment procedures and costs that may be necessary to redevelop the Site. This would include a "Site Review Plan" in accordance with regulatory requirements of the California Division of Oil and Gas. This plan requires a petroleum engineer to review abandonment records and recommend additional procedures if necessary. The report notes that there have been cases where a well cannot be built over and an approximately 15' set back in all directions from the well is required for possible future access to the well. Seven abandoned wells are reported to exist at the Site.

Preparation and implementation of a Soil Management Plan

The report reiterates the existence of elevated petroleum hydrocarbons and arsenic in the soil at the Site. The Fire Department's approval of the soil to be left in place was under the condition that the soil remains capped by the paved parking and the building foundations and that if the soil were to be disturbed, the Fire Department would need to review the proposed developmental action to decide if further investigation or remediation would be necessary. During a redevelopment project it’s very likely that soil disturbance would occur and the report recommended a Soil Management Plan (SMP) be developed and implemented for the Site during any project where soil disturbance would occur.

Potential surprises that could be encountered during grading

While the Site has been investigated in the past, there is always the risk of the discovery of unknown conditions such as localized pockets of hydrocarbons or sump material that may remain in place.

Potential methane mitigation systems for future construction

This section describes the potential for the City of Santa Fe Springs to require a methane barrier be installed underneath any new structures. This would be confirmed after a methane survey is conducted at the Site as part of the "Site Plan Review".

The impacted soil at the Site is considered both a Historic REC and a Controlled REC (CREC).

6. SITE RECONNAISSANCE.

Mr. Troy Taylor of HMC conducted a Site and Site vicinity reconnaissance on February 20, 2019 in order to identify visible evidence of RECs of concern at the Site and to assess possible conditions off Site that may impact the Site. HMC was able to interview the property manager, Ms. Alice Kim, of Brookhollow who was able to provide some insight to the current tenants. She was also available to tour the Site and provide access to the various suites and answer our questions.

The Site is noted to contain seven structures of concrete tilt up construction with textured finishes on several of them. The parking area at the Site is paved asphalt with surface drainage noted towards a storm drain by way of sloping, curbs and ribbon drains. The storm drain is noted as part of a curb island located near the east end of the 10002 Building. A large number of the spaces were vacant and most of the tenant were involved with office uses and no issues of concern were noted. The following list presents those tenants with issues of concern as noted during our Site walk:

9930 Pioneer Blvd.: This building is located in the northeast corner of the Site and contains office a warehousing spaces. This building is currently occupied by several tenants of note such as a medical supply distributor and an after-market automotive parts dealer.

The automotive parts distributor named Fast Undercar is noted to have chemicals relating to the automotive industry but are packaged for resale. This tenant also receives used batteries destined to be recycled. These batteries are picked up regularly and recycled off-Site. The area is noted to be clean with good housekeeping practices. These activities do not pose an REC to the Site.

The medical supply company named Apria Healthcare has offices and warehouse space where

inventory is kept. This facility stocks and distributes various medical items to customers including oxygen tanks. These tanks are stored at this facility but do not pose an REC to the Site.

10016 Pioneer Blvd.: This building is located in the southwest portion of the Site and is noted to contain office and warehouse spaces as well as a cafe. The owner of the cafe indicated that there are no clarifiers in use related to their operation. This building contains a roofing and construction company that stores chemicals in drums in the warehouse as well as an open area behind building 10010. Chemical storage at this unit consisted of several chemicals such as roofing tar, elastic cement, asphaltic materials, unknown materials in drums, and used batteries. The two unmarked 55-gallon drums were noted in the warehouse. No one at the facility was able to identify the contents of the drum. Only *de minimus* staining was noted in the warehouse. This company also stored what appeared to be roofing material waste in gravel piles with roofing tar dried in it. Several roll off waste bins with construction waste are also stored in this area. This storage of the tar containing gravel material on what is reportedly property that belongs to the City of Santa Fe Springs. The drums should be labeled and spills and stains cleaned but these conditions do not rise to the level of an REC in our judgment.

A transportation company named A and D Transportation is also located at this building. This business stores six buses in parking stalls north and south of the building. Moderate staining underneath and in the vicinity of buses was noted which should be cleaned but does not pose an REC to the Site in our opinion.

10020 Pioneer Blvd.: This building is located in the southern area of the Site and contains several tenants of note. A tire recycler name Bontek Incorporated is noted to operate at this building with offices and a warehouse. Three unlabeled 55-gallon drums were seen in the parking area to the north of this tenant's space. Upon questioning, an unidentified employee of the company indicated that these drums contained paint. The employee also indicated that he knew who they belonged to but that the owner was not a tenant at the Site. These drums were being stored in the middle of a parking area with no secondary containment. No releases in relation to these drums were noted at the time of our visit but we recommend these drums be removed from the Site.

A medical device research and development lab named Applied Biocode occupies several units in this building. This occupant uses chemicals and generates small amounts of chemical waste in their operations. The hazardous waste area was observed and was noted to be orderly and generally clean. Gasoline is also noted to be stored in a flammable cabinet in the same area. The fuel is stored in relation to a portable generator kept for backup in case of power failure. A biohazard waste stream is also noted in this area. A representative of the company, Mr. Steve

Parpono, was present with us during the tour of this facility and indicated that no violations in relation to these operations have been received. Reportedly this tenant has complained of odors believed to be stemming from methane below the Site. Three PVC pipe conduits labeled "methane vent" were observed to the be running up the west wall outside of this building. We have been unable to find any documentation related to the vent pipes either with the owner or City of Santa Fe Springs.

The units in the remaining buildings were noted to be vacant or access was not granted due to the absence of the tenant. Based on the names of the tenants and reported uses as described by Ms. Kim, we do not view the lack of access as a critical data gap. Three transformers were observed in the parking lot of the Site. This equipment belongs to Southern California Edison. No staining was observed in the vicinity of these transformers.

Selected photographs illustrating the Site and nearby off-site conditions are included in Appendix A. Summaries of the Site and observations are detailed below.

Description and Use of Site:	The Site is a multi-tenant business park with many of the tenant spaces vacant.
Underground and Aboveground Storage Tanks:	No USTs or ASTs were noted on Site.
Hazardous Materials, Hazardous Wastes or Petroleum Products:	Chemical use and storage was noted at the Site at the following operations: **9930:** Fast Undercar and Apria Healthcare; **10016:** Klondike Construction; and, **10020:** Applied Biocode.
Drains, Drain lines and Sumps:	Drainage at the Site is directed by sheet flow and ribbon drains towards a centrally located storm drain that empties into the regional water reclamation system.
Pits, Ponds, Lagoons	Historical petroleum sumps were noted at the Site in the footprints of the 10012, 10016, and 10020 buildings. These sumps were addressed during the investigation and remediation overseen by the Fire Department.
Industrial Wastewater:	Industrial wastewater was not noted as being generated on Site during our visit. Past tenants are noted as having generated wastewater during a

	review of records maintained by the City of Santa Fe Springs with no violations noted.
Stains:	*De minimus* staining was observed in several areas though no significant stains that would suggest subsurface impacts was noted.
Wells:	There are no groundwater wells on Site. Historical oil wells are noted on the Site in the areas occupied by and in the vicinity of the 9930, 10010, and 10016.
Transformers:	Three transformers were observed the Site. No staining was noted in the vicinity of these transformers.
Other Features:	Klondike Construction also has roll off bins and piles of tar laden gravel behind the 10010 Building.

6.1. Site Vicinity

The Site vicinity includes light manufacturing uses, office, laboratory, warehouse, and distribution centers.

The Site is bound:

- on the north by an audio service company and a tire recycler;
- on the east by a rail road line across which are two industrial equipment supplies companies and a corrugated metals design facility;
- on the south by three industrial office and warehouses; and,
- on the west by Pioneer Blvd across which are industrial buildings in a business park type setting.

No environmental concerns were observed in relation to neighboring facilities during the site investigation.

7. REGULATORY AGENCY DATABASE RESEARCH

Regulatory agency database information was obtained from a standard radius Site Assessment (ASTM) report by Environmental Data Resources, Inc. The center of the search was in the approximate center of the Site. Search distances for specific databases were one-quarter to one mile as specified in the ASTM 1527-13 standard. The database search includes over 70 federal, state, local, and proprietary records. A complete copy of this report is included in Appendix B.

7.1. Database Records Concerning the Target Property

Name	Address	Lists	REC	Rationale
Cigna Health Plan of CA Lab	9920 Pioneer Blvd.	RCRA NONGEN/ NLR FINDS ECHO HAZNET	NO	This tenant is noted to be a handler of hazardous wastes that has disposed of various solvent wastes. No records of releases or violations were found for this facility.
Colorcom	9930 Pioneer Blvd. Ste. 101	HAZNET	NO	This tenant is listed as having disposed of solvent wastes. No records of releases or violations were found for this facility.
Apria Healthcare Inc.	9930 Pioneer Blvd. Ste. 102	Finds	NO	This record exists due to their use and storage of oxygen and does not pose an REC to the Site.
Cigna Hlthcare of Calif/So Cal	9930 Pioneer Blvd. Ste. 102	HAZNET	NO	This facility is listed as having disposed of aqueous solutions including solvents. No records of releases or violations were found for this facility.
Roll Properties International	9930 Pioneer Blvd. Ste. 101	HAZNET	NO	This facility is listed as having disposed of a solid inorganic waste. No records of releases or violations were found for this facility.
Roll Properties International Assocs III	10010 Pioneer Blvd.	HAZNET	NO	This facility is noted as having disposed of an oil containing waste and clarifier sludge. No record of releases or violations were found for this facility. This facility is likely the Euro Industries facility mentioned below in the review of fire department records. This record is noted to have been recorded in 2000 which is the same year the ASTs and above ground clarifier were noted to have been removed from the Site.
Graphic Technology Inc.	10010 Pioneer Blvd. Ste. 102	RCRA-SGQ FINDS ECHO HAZNET	NO	This facility is noted having generated and disposed of various solvent waste. No record of violations or releases were found.
Harshaw Chemical Co.	10016 S. Pioneer Blvd.	LOS ANGLES CO. HMS	NO	This facility is listed having used chemicals. No records of releases or violations were found.
White Laboratories Inc.	10016 S. Pioneer Blvd.	LOS ANGLES CO. HMS	NO	This facility is listed having used chemicals. No records of releases or violations were found.

Mepco Oil Inc.	10016 Pioneer Blvd.	EDR HIST AUTO	NO	This facility is listed as a historical automotive facility involved with fuel and oil from 1995 to 2000. This listing most likely exists due to the business operating an office at this address. No fuel or oil product manufacturing has been observed or disclosed at the Site.

The Site did not appear on any other databases.

7.2. Database Records Concerning the Site Vicinity

A review of the EDR Radius Map database search was conducted to assess potential off-Site facilities that could be contributing hazardous substances to the Site and represent an REC. In review of the many entries on the database, we reviewed the following factors that affect the ability of a facility to affect the Site:

- Distance from the Site,
- Location from the Site with regard to the direction of groundwater flow,
- Nature of the release and whether the release has affected soil, groundwater or both,
- Status of the investigation (e.g. open or closed).

As mentioned, groundwater is reported to flow to the south. Therefore, properties adjacent to the Site or in the northern direction were considered as potential concerns. Only those facilities judged using these factors are discussed below.

Name	Address	Dir/Dist.	Lists	REC	Rationale
Omega Chemical Corporation	12504 &12512 E. Whittier Boulevard Whittier, CA 90602	2.6 miles N	NPL SEMS CORRACTS RCRA-TSDF RCRA-LGQ US ENG. CONTROLS US INST. CONTROL SWEEPS UST HIST. UST ROD RAATS PRP EMI	NO	This facility is listed as a SUPERFUND Site and has contributed to a large TCE groundwater plume which extends southwest from the facility and south through Santa Fe Springs. The Site lies on the western border of this plume. Remediation of this facility and subsequent contamination is listed as Active on the ENVIROSTOR database. As there is no evidence that the Site has contributed to this release, we would not consider this to

					be an REC but rather, a feature of note.
Delta Magnetics	10039 S Pioneer	91' W	RCRA-SGQ FINDS ECHO	NO	This facility is listed as a small quantity generator of hazardous waste. No records of releases or violations were found for this facility.
SMW Systems	9828 S. Arlee	425’ N	RCRA-SGQ FINDS ECHO	NO	This facility is listed as a small quantity generator of hazardous waste. No records of releases or violations were found for this facility.
Ellison Machinery Co.	9890 S. Pioneer Blvd.	519’ NE	RCRA-SGQ FINDS ECHO	NO	This facility is listed as a small quantity generator of hazardous waste. No records of releases or violations were found for this facility.
Spider SC Safeworks LP	11801 E. Smith Ave.	760' N	RCRA-SGQ	NO	This facility is listed as a small quantity generator of benzene, PCE, and TCE. No records of releases or violations were found for this facility.
Rohback Cosasco Systems	11841 Smith	760’ NE	RCRA-SGQ FINDS ECHO EMI	NO	This facility is listed as a small quantity generator of hazardous waste. The facility is also listed as a historical large quantity generator of hazardous waste. No records of releases or violations were found for this facility.
Smith Avenue	11919 Smith Avenue	981’ NE	HIST UST NPDES CIWQS	NO	This facility is listed as having operated a UST. A storage container information record from 1988 was found indicating a 10,000-gallon diesel tank existed at the facility. No record of releases or violations were found. Given the lack of reported releases and distance to the Site, this facility would not be considered an REC in our judgment.
RJM Company	11919 Smith Dr.	981’ NE	SWEEPS UST	NO	This facility is listed as having operated a UST and is likely related to the previous listing.

Southern California Edison - Whittier	Smith Ave.	1,203' NW	CPS-SLIC	NO	Records on the GeoTracker database indicate a soil excavation project to remove soil and material in oil sumps. This site has a Closed status from the DTSC.

7.3. Orphan Sites

Orphan Sites are those properties that are included on various agency lists, but for which the records do not have sufficient address information for the database program to map the site. None of the facilities listed were appeared to be in the immediate site vicinity.

7.4. Summary of Off-Site Issues

The Site is located in an area that has historically had light industrial and manufacturing uses. While chemicals were used and some releases occurred, none were close enough or in the correct orientation to be a threat to the Site. No RECs were found from off Site sources. The Omega Chemical Corporation has created a large groundwater plume that extends across the City of Santa Fe Springs and may encroach onto the Site. However, there is no data to suggest that the Site has contributed to impacts in the Omega Plume and as such, we would not consider this to be an REC to the Site.

7.5. Tribal Records

The Site is not located in a tribal area so there were no tribal records to review.

7.6. Oil and Gas Wells

The State of California Department of Conservation, Division of Oil, Gas, and Geothermal Resources online mapping website was reviewed for the location of active, plugged, or abandoned oil wells in the vicinity of the Site. There is record of seven plugged oil wells at the Site with associated sumps. A map portraying the orientation of the plugged wells and former sumps is included in Figure 3.

7.7. State of California

The State of California Geotracker and EnviroStor websites were also reviewed for information on potential on or off-site facilities that are being investigated or remediated under either RWQCB or DTSC oversight. The Site was not listed nor were there any facilities listed in the search zone that were not already listed in the EDR Radius Report reviewed as part of this assessment.

7.8. City of Santa Fe Springs Fire Department

HMC also reviewed records from the SFSFR who provides regulatory oversight for facilities that use hazardous materials and generate hazardous waste as well as provides regulatory oversight for certain site investigatory and remedial action. Records review yielded the following notable findings:

Name	Address	REC	Activities/Violations
Marquez Cabinets/AA Brothers	9930 Pioneer Boulevard	NO	This facility was noted to have a violation for spraying adhesives without a spray booth. This issue was brought into compliance and does not pose an REC to the Site.
Cigna Healthplans of California	9930 Pioneer Boulevard	NO	In a letter from the DTSC it is noted that this facility would treat hydrochloric acid with a sodium hydroxide and dispose of it down a drain in the facility.
Ninos Latinos Unidos	9930 Pioneer Boulevard	NO	This facility was given a violation for disposing of hazardous waste in a garbage receptacle. This practice in our opinion does not pose an REC to the Site.
One Stop Printing	10002 Pioneer Blvd.	NO	This facility is noted to have been observed rinsing aluminum plates with an activator chemical and water outside of the building. No violation was given but the SFSFR representative recommended against this practice. This facility is noted to have stored a gallon of the activator chemical. This activity likely has not caused contamination at the Site and does not pose an REC.
Euro Industries	10010 Pioneer Blvd.	NO	This facility is noted as operating a fabric dyeing line. The waste was transferred through conduit in floor trenches to two ASTs and an above ground clarifier. The unused dye and water was noted to be discharge to the sewer system. These features were removed in 2000 and the sludge subsequently sampled for PH and metals. The results yielded non-hazardous levels for the materials sampled. No violations were noted and the facility was given a No Further Action letter from the SFSFR in 2001. Given the sample results and the NFA letter it is our judgment that the activities from this facility does not pose an REC to the Site.
White Laboratories	10016 Pioneer Blvd.	NO	This facility is noted as manufacturing a mildew removal product. The facility used hypochlorite, granular chlorine, and soda ash to make this product. The tank this was mixed in was washed daily and generated 50-gallons of waste water per day which was then disposed of in a drain leading to the sewer. This disposal method was noted to be a permitted method in the record. This practice likely does not pose an REC to the Site.

Harshaw Chemical Company	10016 Pioneer Blvd.	NO	This facility operated a laboratory that conducted analysis of metal finishing solutions. This facility generated up to 1.5 ounces of waste water containing analytical reagents and metal finishing solution noted in by the inspector on record. This waste was also noted in the record to be permitted to discharge to the sewer. This operation likely does not pose an REC to the Site.

7.9. South Coast Air Quality Control Management District

A review of the AQMD Website indicates that no records were found for the Site.

7.10. City of Santa Fe Springs

The City of Santa Fe Springs City Manager's Office maintains a records database of building permits. The file contained several permits for the addresses at the Site. These permits described construction projects that occurred at the Site. These records provided some insight into activities at the Site but none that were not previously discussed above. Some of these permits were also reviewable in the EDR Report.

7.11. Los Angeles Regional Water Quality Control Board

A request for review of files maintained for the Site were requested but a response has not been received as of this date. The Site was not listed in the RWQCB Geotracker website.

8. VAPOR INTRUSION, ASBESTOS AND OTHER MATERIALS

8.1. Vapor Intrusion

The historic use of the Site as an oilfield as well as the eastern portion of the Site potentially being located within a documented groundwater plume originating off Site pose a moderate vapor intrusion risk.

8.2. Asbestos

The Site was developed into its current configuration with the residential structure in the 1970's when asbestos-containing materials (ACM) were still found in building materials. While the scope of work did not include an asbestos survey, a visual assessment was conducted during our Site inspection. Suspect ACMs at the Site included but are not limited dry wall, vinyl flooring, roofing material, and mastic. The material was noted in good condition and no delaminating or damage was noted. If the material is to remain in place, an Operations and Management (O&M) Plan should be prepared to guide management of the building with ACMs until such time that all ACMs are removed from the Site. If the structures are intended to be demolished, all asbestos containing materials must be abated prior to any action that could disturb the asbestos, like

demolition, takes place.

8.3. Radon

Radon is a naturally occurring radioactive material that is discharged from rocks present in the subsurface. The Site is listed as being located in Zone 2 with regards to radon indicating that radon maybe present at concentrations less than 4 pico curies / liter.

8.4. Mold

No evidence of water damage or mold growth was observed.

9. SUMMARY OF FINDINGS

Key findings of this Phase I ESA are as follows:

- The Site was historically an oilfield until the 1970's when the Site was redeveloped into its current orientation and used as an industrial business park. The Site included 7 oil wells as well as several oil field sumps in addition to pipelines that would typically connect the wells to above ground storage tanks.
- The Site was redeveloped at a time that environmental regulations and control were not as stringent as are present today. There were requirements for abandonment of oil wells and geotechnical requirements for development that would have likely precluded leaving oil field sumps in place. Redevelopment of the Site would have likely included removal of more liquid material that may have been present while using impacted soil during the grading effort.
- The City of Santa Fe Springs Fire Department was involved and oversaw the oil field closure aspects as part of the redevelopment efforts at the Site. Soil sampling was conducted as part of the redevelopment and a report was submitted which documented the concentrations of petroleum hydrocarbons present in soil at the Site. Methane gas sampling was also conducted which reported generally low concentrations. The Fire Department approved that the impacted soil could be left in place provided it remained capped by the paved parking lot and building foundations. A No Further Action status was approved for the Site by the Fire Department.
- There have been previous subsurface investigations conducted at the Site after the redevelopment as part of various due diligence investigations. The results of those investigations document the presence of soil in areas of the Site consistent with the previous closure determination of the Fire Department.
- In the Fire Department closure letter, they reference that changes in the Site conditions would need their further review. Redevelopment of the Site will entail movement of the residually impacted soil at the Site under potentially more stringent regulatory requirements. However, petroleum hydrocarbons do degrade with time so that the

current concentrations may be less than what was documented in the previous subsurface investigations at the Site.

- The oil wells that were abandoned will need to be evaluated as part of any redevelopment to assess whether the Division of Oil and Gas will require that they be reabandoned to current standards. This will include an updated methane gas survey which will be important for both the oil well abandonment evaluation but also to assess whether a methane gas mitigation system will be necessary as part of the future development.
- The historical oil field uses of the Site and remedial actions taken represent a Historic and Controlled REC in our judgment.
- The buildings on Site are used for a variety of primarily office related uses with minimal chemical usage. The following facilities were noted exceptions:
- The 10016 building contains a roofing and construction company named Klondike Construction that stores chemicals such as roofing tar, elastic cement, asphaltic materials and unknown materials in drums in the warehouse. Two unmarked 55-gallon drums were noted in the warehouse as well as used automotive batteries. This company also stores tar laden gravel in piles in an open area behind building 10010 on property owned by the City of Santa Fe Springs. While there were no significant stains, all of their chemical waste should be removed prior to their vacating the premises.
- Several unlabeled 55-gallon drums were noted in the parking area north of the Bontek Inc. space at the 10020 building. The drums did not appear associated with any specific tenant.
- What appeared to be methane vent pipes consistent with a methane mitigation system was noted along the 10020 building wall. The owner was not aware and there were no plans or documentation of the construction of this feature found during this assessment.

- While there were chemicals used, there were no RECs noted from the current use of the Site.
- The Site is located in an area that has historically had light industrial and manufacturing uses. While chemicals were used and some releases occurred, none were close enough or in the correct orientation to be a threat to the Site with the exception of Omega Chemical Corporation. This facility contributed to a large groundwater chlorinated solvent plume that originates 2.6 miles to the northeast and heads southwest toward the Site before turning south. The western border of this plume may extend onto the Site. There has been no data to date to suggest that the Site may have contributed to the Omega Plume and as such, we would not consider it to be an REC to the Site.
- There were no RECs found from off Site sources.
- HMC previously reviewed the prior reports for the Site and prepared an environmental evaluation which included recommendations for actions to take with regards to future

development of the Site. They included:

- a "Site Plan Review" should be undertaken to assess whether re-abandonment to current standards for the plugged oil wells at the Site is necessary;
- Prepare and implement a Soil Management Plan for the impacted soils at the Site as well as for possible surprises that could be found during grading; and,
- Based on the results of the soil gas survey, a methane mitigation system may be necessary as part of future construction.

- There has been no new information to alter or change these overall recommendations for redevelopment. We do recommend that an updated Site assessment including a methane gas survey be conducted at the Site to aid in the development of the SMP as well as to assess whether a methane mitigation system will be needed at the Site.

10. DATA GAPS

Data gaps were not found during our investigation.

11. CONCLUSIONS

HMC has conducted a Phase I ESA for the Site in accordance with the ASTM E1527-13 guidelines. Based on the results of our research and available data, there were no RECs noted at the Site.

However, the Site was part of an oil field and remedial actions were taken to close the oil wells and soil sampling confirmed the presence of elevated concentrations of hydrocarbons in soil that was allowed to remain in place by the City of Santa Fe Springs Fire Department. The historic oil field operations would be considered a HREC, and CREC in our judgment

While not an REC per the ASTM definition, given the age of the building, it is likely that asbestos containing materials are present at the Site.

12. RECOMMENDATION

Given the findings of this ESA, we recommend that:

- A subsurface investigation be conducted across Site to assess the current concentrations of hydrocarbons and arsenic that were previously reported at the Site as well as a soil gas survey to assess the potential for methane gas and volatile organic compounds that may be present.
- HMC has previously offered recommendations with regards to actions that will be necessary to allow development of the Site. They include:

  - a "Site Plan Review" should be undertaken to assess whether re-abandonment to current standards for the plugged oil wells at the Site is necessary;
  - Prepare and implement a Soil Management Plan for the impacted soils at the Site as well as for possible surprises that could be found during grading; and,
  - Based on the results of the soil gas survey, a methane mitigation system may be necessary as part of future construction.
- The two unmarked 55-gallon drums in the Klondike warehouse should be identified and stored properly. The batteries noted in the warehouse should be recycled or stored properly if still in use. The tar laden piles belonging to Klondike Construction should be properly stored.
- The four 55-gallon drums of paint in the parking lot north of the tire recycler should be removed from the Site by the owner of those drums.
- An asbestos survey should be conducted to assess potential asbestos containing materials that may be present at the Site that will need to be abated prior to demolition.

13. QUALIFICATIONS

Mark S. Cousineau, NREP

Mr. Mark S. Cousineau, principal with HMC, has a diverse professional background in environmental management, which includes working as a generator, regulator, consultant, and corporate advisor in hazardous waste and other environmental issues.

Mr. Cousineau's technical background is focused in the area of overseeing large-scale environmental investigations and regulatory compliance management related to site assessments, subsurface investigations, facility surveys, and site remediation. To projects such as these, Mr. Cousineau brings expertise in evaluating complex sites and developing solutions to solve the technical, operational, regulatory, financial and timing issues. In addition, Mr. Cousineau routinely assists clients in developing environmental business plans for single assets and multi-site real estate portfolios and has designed and implemented several tenant audit programs involving the proactive management of environmental risk caused by on-site commercial and industrial tenant activities.

Mr. Cousineau has provided litigation support and has served, as a court-appointed expert on environmental issues, is a member of the National Registry of Environmental Professionals, holds a M.S. in Environmental Sciences from California State University Fullerton and a B.S. in Chemistry from University California San Diego.

As signatory to this report, I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of this part. I have the specific qualifications based on education, training, and experience to assess the property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312."



Mark Cousineau, NREP
Principal

14. REFERENCES

BRG, 2018 3rd Quarter Groundwater Monitoring and Status Report for the 76 Fuel Station, October 4th, 2018

CDWR, 2004 Coastal Plain of Los Angeles Groundwater Basin, California's Groundwater Bulletin 118, February 27th, 2004

Environ, 2004 Phase I and II ESA Santa Fe Springs Commerce Center, February 13, 2004

HMC, 2014 Evaluation of the Environmental Status of the Santa Fe Springs Commerce Center, March 6, 2014

HMC, 2018 Evaluation of the Environmental Status of the Santa Fe Springs Commerce Center, June 26, 2018

Partner, 2014 Phase I ESA Report KP Industrial/Office Portfolio LLC in CA, February 14, 2014

TABLES

TABLES

OVERVIEW MAP - 5552600.2S



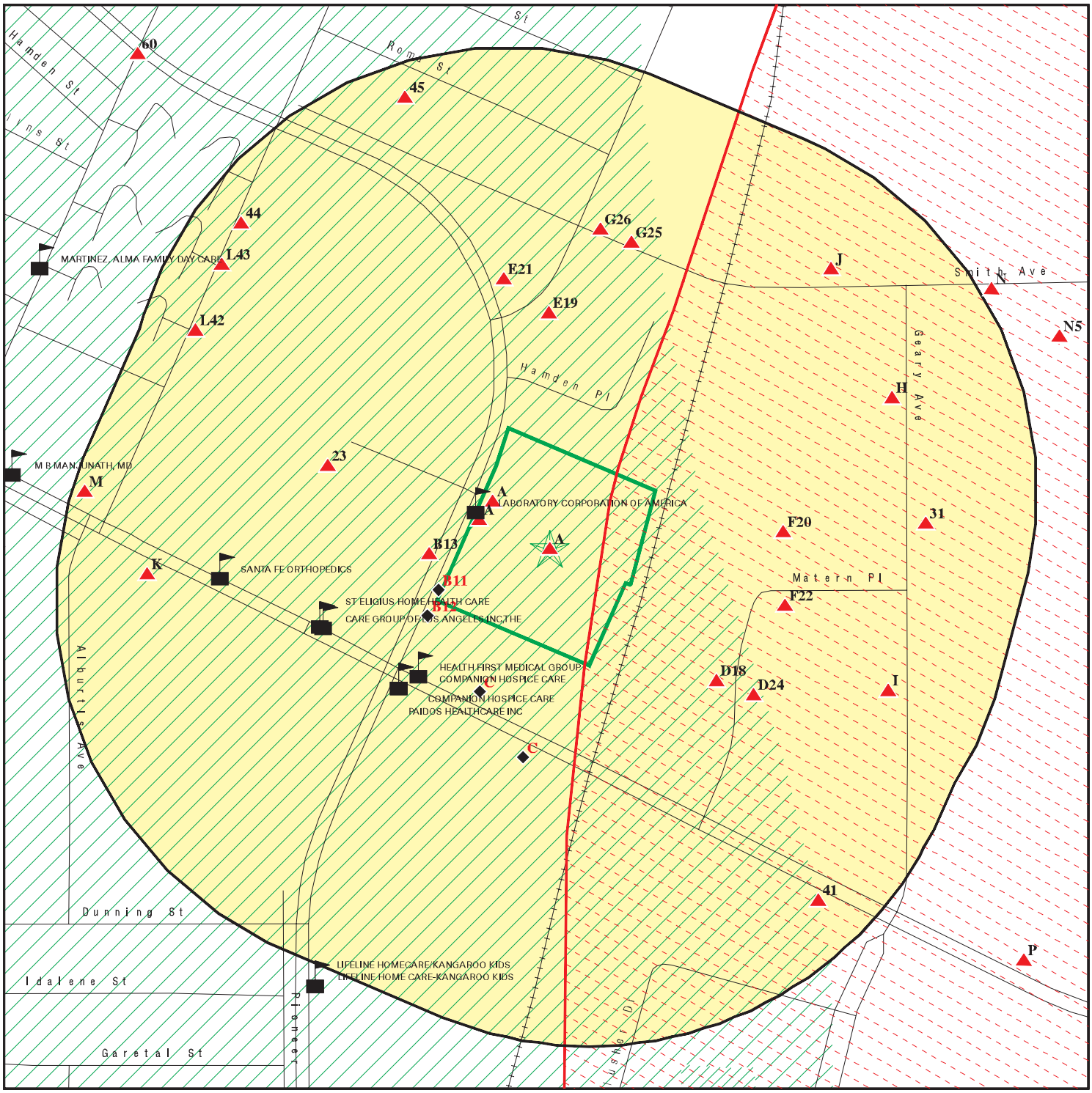
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 9920 Pioneer Blvd	CLIENT: Hazard Management Consulting
ADDRESS: 9920 Pioneer Blvd Santa Fe Springs CA 90670	CONTACT: Troy Taylor
LAT/LONG: 33.946351 / 118.079047	INQUIRY #: 5552600.2s DATE: February 04, 2019 2:57 pm

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DETAIL MAP - 5552600.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 9920 Pioneer Blvd	CLIENT: Hazard Management Consulting
ADDRESS: 9920 Pioneer Blvd Santa Fe Springs CA 90670	CONTACT: Troy Taylor
LAT/LONG: 33.946351 / 118.079047	INQUIRY #: 5552600.2s DATE: February 04, 2019 3:00 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		1	0	0	0	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		1	0	0	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	2	NR	NR	2
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		1	0	0	1	NR	2
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		1	0	0	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250		1	1	NR	NR	NR	2
RCRA-SQG	0.250		7	6	NR	NR	NR	13
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		1	0	0	NR	NR	1
US INST CONTROL	0.500		1	0	0	NR	NR	1
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	2	NR	2
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	1	6	14	NR	21
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	1	0	NR	NR	1
State and tribal leaking storage tank lists								
LUST	0.500		1	4	7	NR	NR	12

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	1	4	NR	NR	5
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	2	NR	NR	NR	2
AST	0.250		1	2	NR	NR	NR	3
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	2	NR	NR	2
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	2	1	NR	NR	3
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
AOCONCERN	1.000		0	0	0	0	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		5	5	NR	NR	NR	10
HIST UST	0.250		1	4	NR	NR	NR	5
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	1	NR	NR	NR	1
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	0	0	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		1	0	0	0	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		1	NR	NR	NR	NR	1
PRP	0.001		1	NR	NR	NR	NR	1
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	1	2	NR	NR	NR	NR	3
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001	1	1	NR	NR	NR	NR	2
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		1	NR	NR	NR	NR	1
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001	1	5	NR	NR	NR	NR	6
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		1	2	5	NR	NR	8
LOS ANGELES CO. HMS	0.001		2	NR	NR	NR	NR	2
HWP	1.000		0	0	0	1	NR	1
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	1	NR	1
LA Co. Site Mitigation	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		4	38	32	27	19	0	120

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

FIGURES

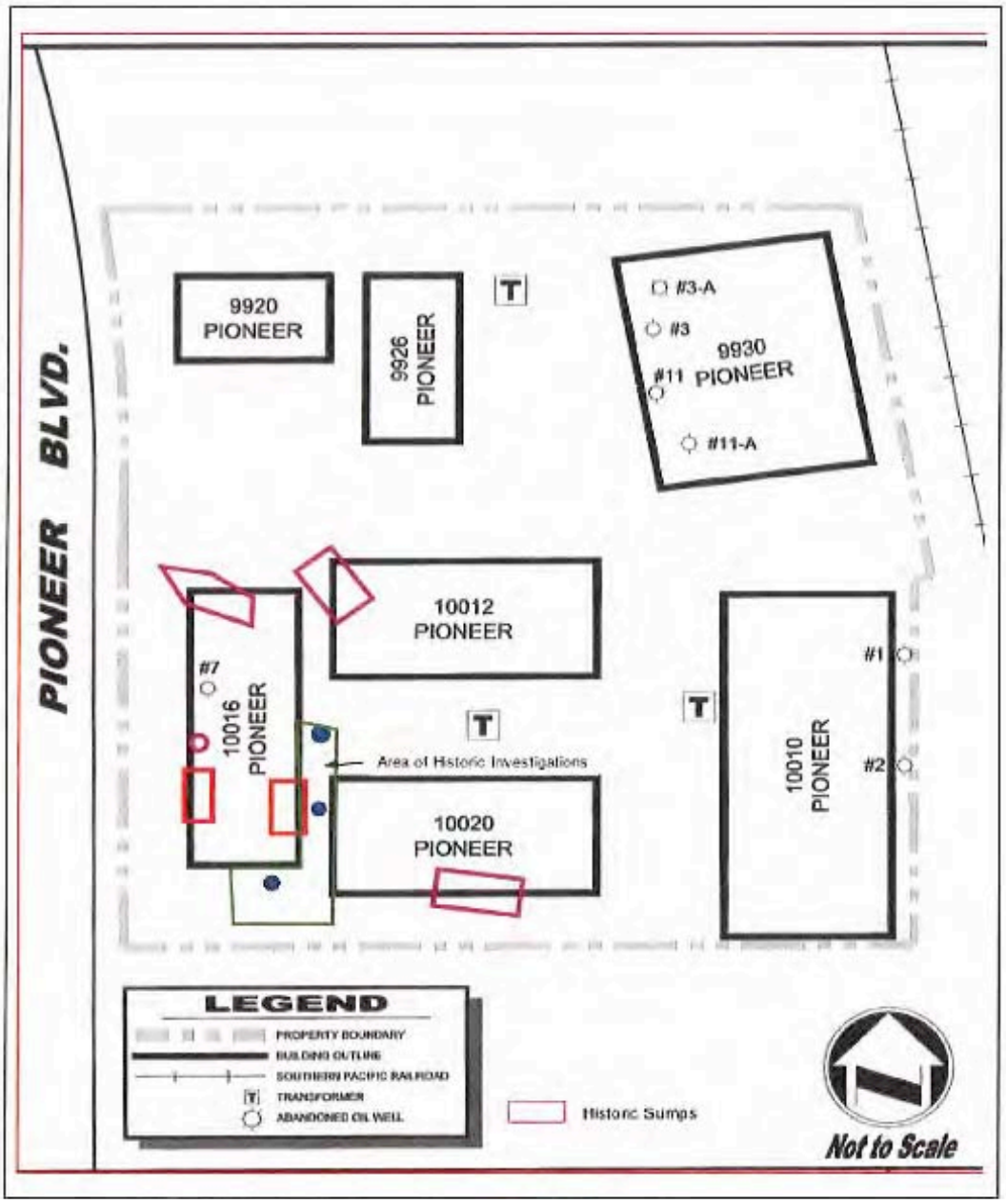


Figure 1
9920-10020 Pioneer Boulevard
Santa Fe Springs, CA



HMC
HAZARD MANAGEMENT CONSULTING

Figure 2
9920-10020 Pioneer Boulevard
Santa Fe Springs, CA



HMC HAZARD MANAGEMENT CONSULTING

Figure 3
9920-10020 Pioneer Boulevard
Santa Fe Springs, CA

APPENDIX A



Photo 1 View of illegal drug manufacturing supplies



Photo 2 View of illegal drug manufacturing equipment



Photo 3 View of illegal drug manufacturing equipment



Photo 4 Equipment at illegal drug manufacturer



Photo 5 De minimis staining



Photo 6 Pill manufacturing line



Photo 7 Supplies and pill line machinery



Photo 8 Illegal drug manufacturer supplies

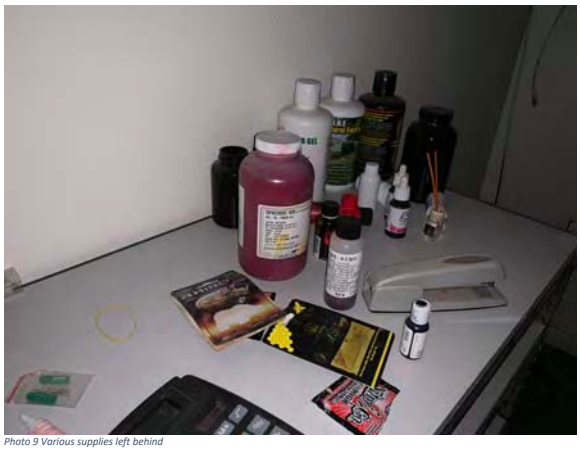


Photo 9 Various supplies left behind



Photo 10 Unknown powders left behind



Photo 11 Compressor at illegal drug manufacturer



Photo 12 View of illegal drug manufacturer warehouse



Photo 13 Transformer cage



Photo 14 View of oxygen tank area



Photo 15 View of laboratory waste area



Photo 16 Biohazard storage bin



Photo 17 View inside flammable cabinet



Photo 18 Construction companies' chemical storage



Photo 19 Unidentified 55-gallon drums



Photo 20 Old batteries stored by the construction company

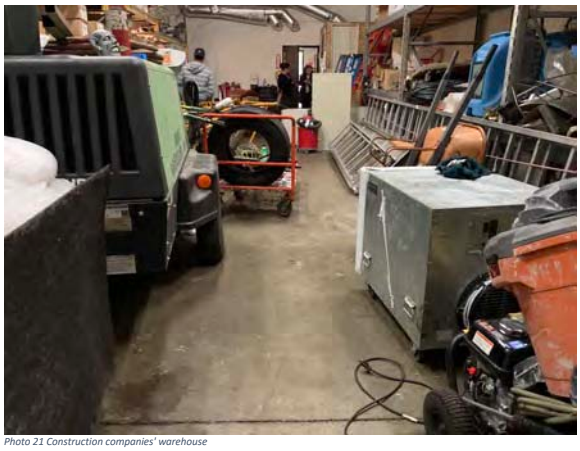


Photo 21 Construction companies' warehouse



Photo 22 Bus storage area with staining



Photo 23 Bus storage area with staining



Photo 24 Bus storage area with staining



Photo 25 Paint drums belonging to tire recycling company



Photo 26 Bus storage area with staining



Photo 27 9926 Adult Care Facility



Photo 28 View of 9926 building



Photo 29 View west of 10002 building



Photo 30 View east of 10002 building



Photo 31 View of 9930 building



Photo 32 View of 10010 building



Photo 33 View of oxygen storage area



Photo 34 View of construction companies' gravel piles and roll of bins



Photo 35 Tar laden gravel



Photo 36 Tar laden gravel



Photo 37 Gravel piles



Photo 38 Dumping behind 10010 building



Photo 39 Tar laden gravel



Photo 40 Bus storage area with staining

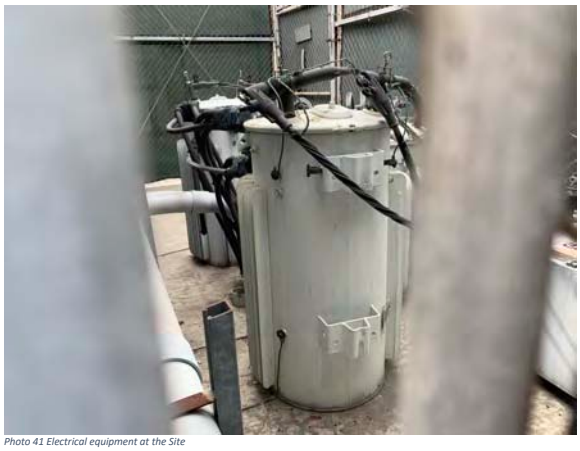


Photo 41 Electrical equipment at the Site



Photo 42 Methane vents and filled trenches

APPENDIX B

Fax To: Hazard Management Consulting
Contact: Troy Taylor
Fax : 000-000-0000
Date: 02/04/2019

Fax From: Di Casian
EDR
Phone: 1-800-352-0050

EDR PUR-IQ® Report

"the intelligent way to conduct historical research"

for
9920 Pioneer Blvd
9920 Pioneer Blvd
Santa Fe Springs, CA 90670
Lat./Long. 33.946351 / 118.079047
EDR Inquiry # 5552600.2s

The EDR PUR-IQ report facilitates historical research planning required to complete the Phase I ESA process. The report identifies the *likelihood* of prior use coverage by searching proprietary EDR-Prior Use Reports® comprising nationwide information on: city directories, fire insurance maps, aerial photographs, historical topographic maps, flood maps and National Wetland Inventory maps.

Potential for EDR Historical (Prior Use) Coverage - Coverage in the following historical information sources may be used as a guide to develop your historical research strategy:

1. Building Permits: Building Permits are available for 'SANTA FE SPRINGS', CA (1994 - 2017).

2. City Directory: Coverage exists for the TP address for 2006

3. Fire Insurance Map: When you order online any EDR Package or the EDR Radius Map with EDR Sanborn Map Search/Print, you receive site specific Sanborn Map coverage information at no charge.

4. Aerial Photograph: Coverage exists for portions of Los Angeles County for the following decades: 1920s, 1940s, 1950s, 1960s, 1990s, 1970s, 1980s Shipping time 3-5 business days.

5. Topographic Map: The USGS 7.5 min. quad topo sheet(s) associated with this site:

Historical: Coverage exists for LOS ANGELES County

Current: Target Property: TP | 2012 | 5633777 Whittier, CA

6. Flood Insurance Rate Maps (FEMA) : Coverage is available for LOS ANGELES county.

EDR's network of professional researchers, located throughout the United States, accesses the most extensive national collections of city directory, fire insurance maps, aerial photographs, flood maps and historical topographic map resources available for Santa Fe Springs, CA. These collections may be located in multiple libraries throughout the country. To ensure maximum coverage, EDR will often assign researchers at these multiple locations on your behalf. Please call or fax your EDR representative to authorize a search.

EDR - HISTORICAL SOURCE(S) ORDER FORM

Hazard Management Consulting
Troy Taylor
Account # 1015553

9920 Pioneer Blvd
9920 Pioneer Blvd
Santa Fe Springs, CA 90670
LOS ANGELES County
Lat./Long. 33.946351 / 118.079047
EDR Inquiry # 5552600.2s

Should you wish to change or add to your order, fax this form to your EDR account executive:

Di Casian
Ph: 1-800-352-0050 Fax: 1-800-231-6802

Reports

___ EDR Sanborn Map® Search/Print

___ EDR Fire Insurance Map Abstract

___ EDR Multi-Tenant Retail Facility® Report

___ EDR City Directory Abstract

___ EDR Aerial Photo Decade Package

___ USGS Aerial 5 Package

___ USGS Aerial 3 Package

___ EDR Historical Topographic Maps

___ Paper Current USGS Topo (7.5 min.)

___ Environmental Lien Search

___ Chain of Title Search

___ NJ MacRaes Industrial Directory Report

___ EDR Telephone Interview

Shipping:

___ Email
___ Express, Next Day Delivery — RUSH SERVICE IS AVAILABLE
___ Express, Second Day Delivery
___ Express, Next day Delivery — Customer Account — Acct # _____
___ Express, Second Day Delivery — Customer Account — Acct # _____
___ U.S. Mail

Thank you

9920 Pioneer Blvd

9920 Pioneer Blvd

Santa Fe Springs, CA 90670

Inquiry Number: 5552600.3

February 04, 2019

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

02/04/19

Site Name:

9920 Pioneer Blvd
9920 Pioneer Blvd
Santa Fe Springs, CA 90670
EDR Inquiry # 5552600.3

Client Name:

Hazard Management Consulting
211 W. Avenida Cordoba
San Clemente, CA 92672
Contact: Troy Taylor

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Hazard Management Consulting were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # B350-48DE-9325

PO # NA

Project Pioneer Blvd Santa Fe Springs

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: B350-48DE-9325

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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9920 Pioneer Blvd

9920 Pioneer Blvd

Santa Fe Springs, CA 90670

Inquiry Number: 5552600.4

February 04, 2019

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

02/04/19

Site Name:

9920 Pioneer Blvd
9920 Pioneer Blvd
Santa Fe Springs, CA 90670
EDR Inquiry # 5552600.4

Client Name:

Hazard Management Consulting
211 W. Avenida Cordoba
San Clemente, CA 92672
Contact: Troy Taylor

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Hazard Management Consulting were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA

Project: Pioneer Blvd Santa Fe Springs

Coordinates:

Latitude:	33.946351 33° 56' 47" North
Longitude:	-118.079047 -118° 4' 45" West
UTM Zone:	Zone 11 North
UTM X Meters:	400287.51
UTM Y Meters:	3756731.86
Elevation:	130.00' above sea level

Maps Provided:

2012	1942
1981	1925
1972	1923
1965	1902
1951	1899
1949	1896
1947	
1943	

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Topo Sheet Key

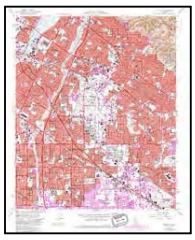
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Whittier
2012
7.5-minute, 24000

1981 Source Sheets



Whittier
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1972 Source Sheets



Whittier
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1965 Source Sheets



Whittier
1965
7.5-minute, 24000
Aerial Photo Revised 1963

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1951 Source Sheets



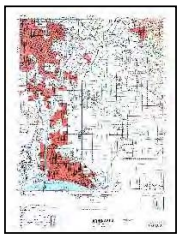
Whittier
1951
7.5-minute, 24000
Aerial Photo Revised 1947

1949 Source Sheets



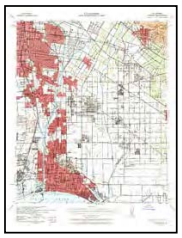
Whittier
1949
7.5-minute, 24000
Aerial Photo Revised 1947

1947 Source Sheets



DOWNEY
1947
15-minute, 50000

1943 Source Sheets



Downey
1943
15-minute, 62500
Aerial Photo Revised 1939

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1942 Source Sheets



Downey
1942
15-minute, 62500

1925 Source Sheets

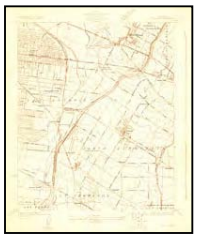


Whittier
1925
7.5-minute, 24000

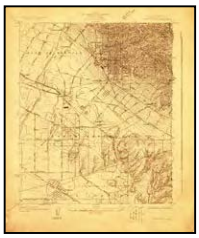


Bell
1925
7.5-minute, 24000

1923 Source Sheets



Bell
1923
7.5-minute, 24000



Whittier
1923
7.5-minute, 24000

1902 Source Sheets



Downey
1902
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1899 Source Sheets



Downey
1899
15-minute, 62500

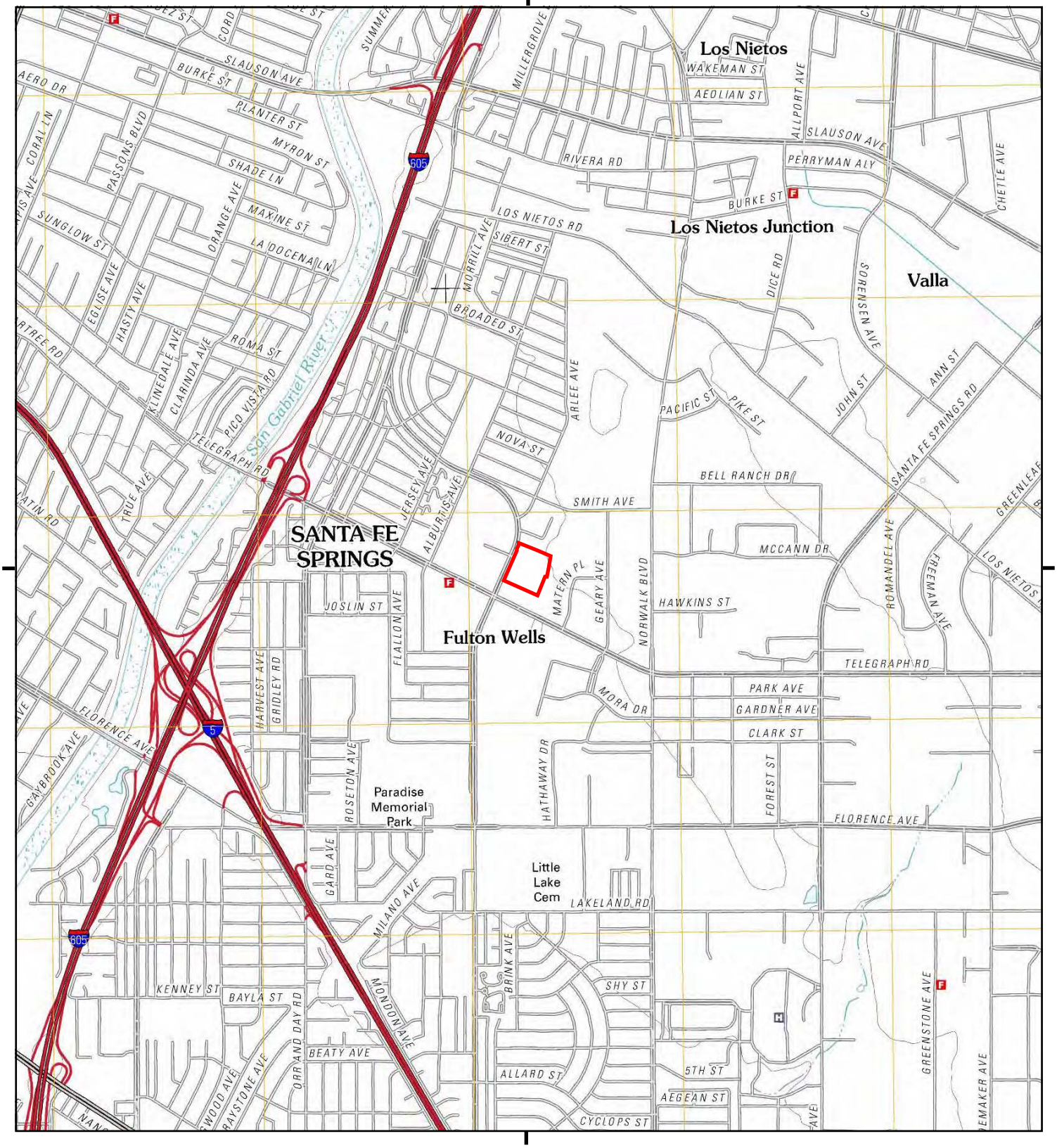
1896 Source Sheets



Downey
1896
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

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W E
SW S SE

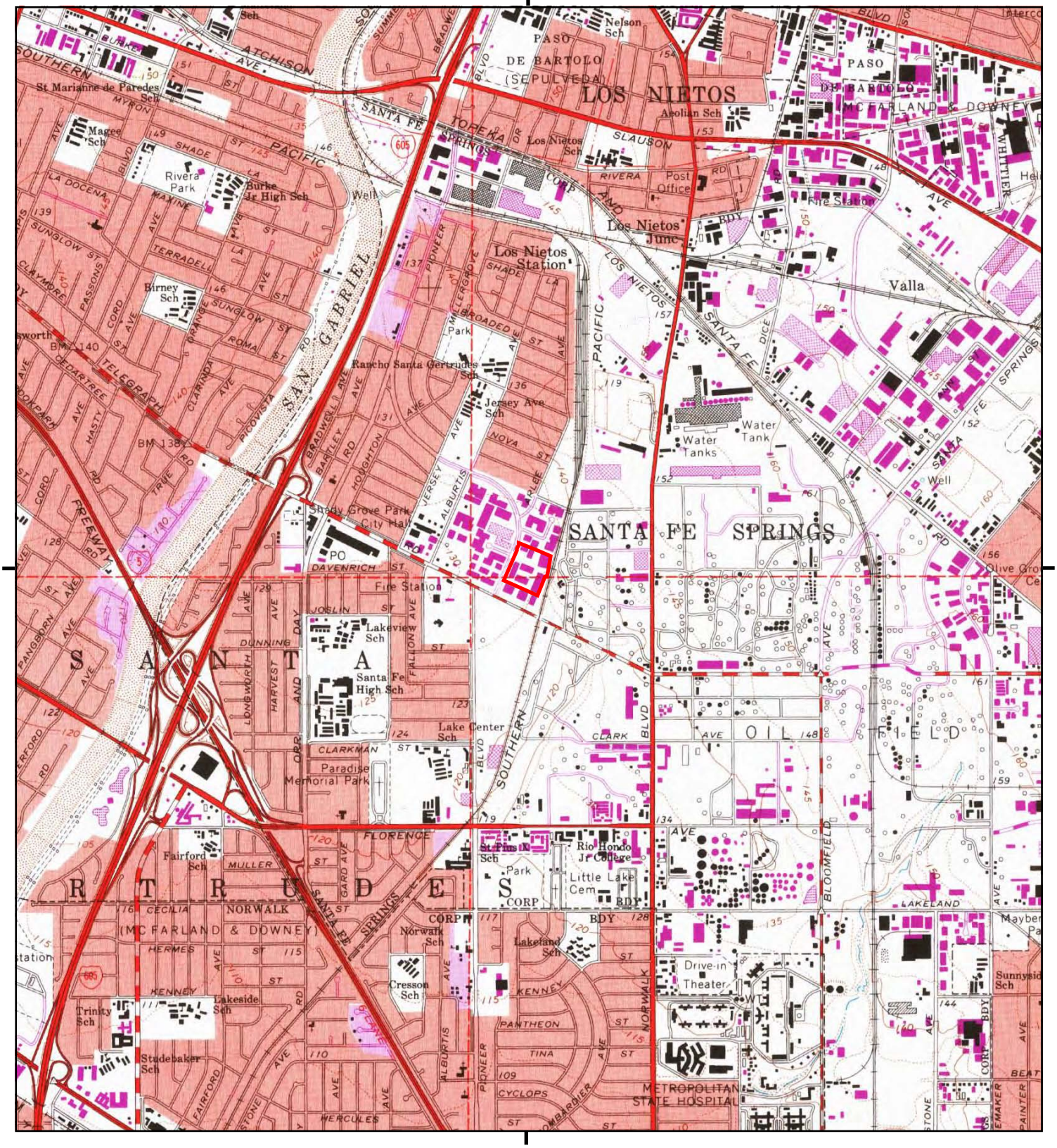
TP, Whittier, 2012, 7.5-minute

SITE NAME: 9920 Pioneer Blvd
ADDRESS: 9920 Pioneer Blvd
Santa Fe Springs, CA 90670
CLIENT: Hazard Management Consulting

N

Historical Topo Map

1981



This report includes information from the following map sheet(s).

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W E
SW S SE

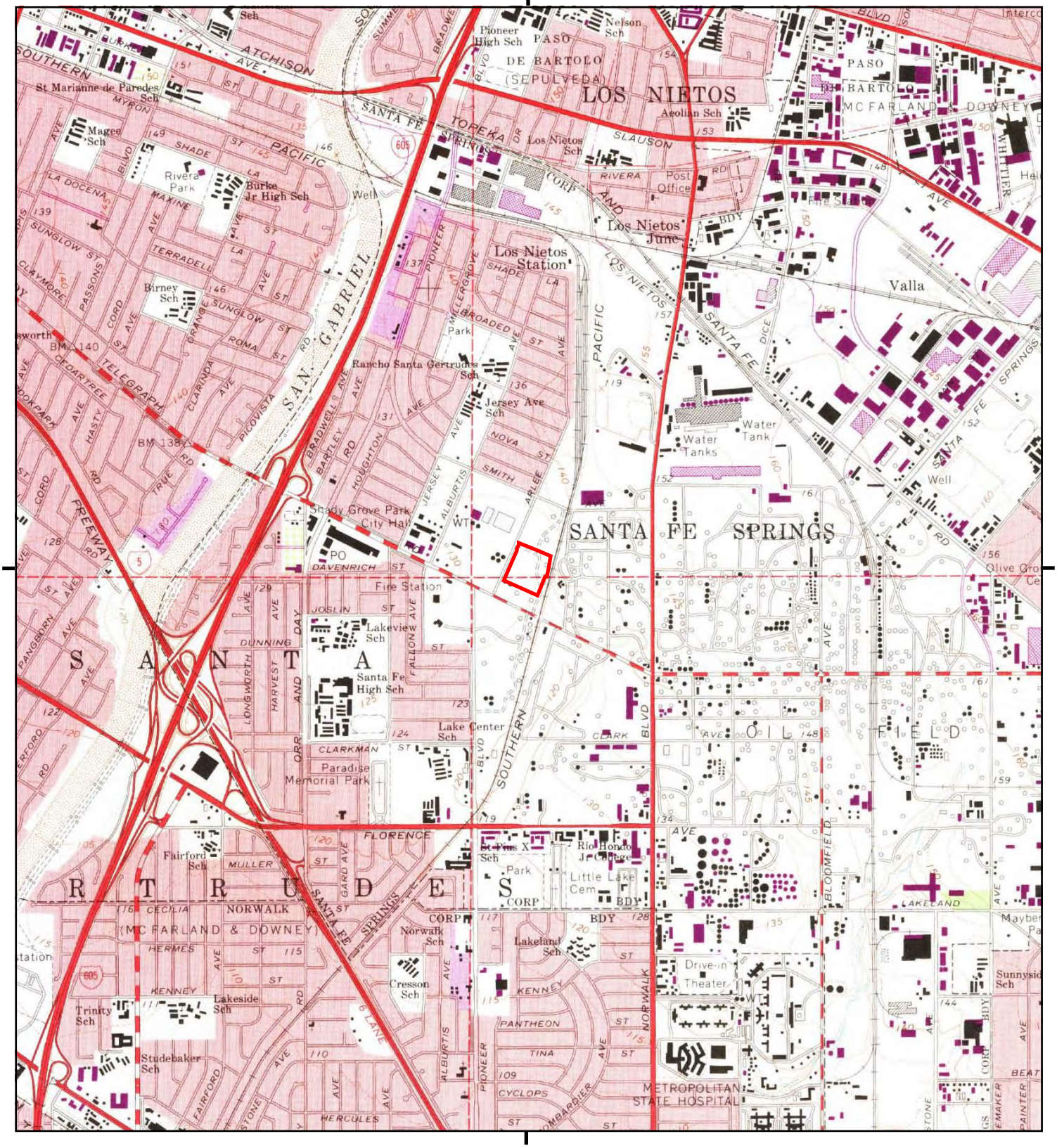
TP, Whittier, 1981, 7.5-minute

SITE NAME: 9920 Pioneer Blvd
ADDRESS: 9920 Pioneer Blvd
Santa Fe Springs, CA 90670
CLIENT: Hazard Management Consulting

N

Historical Topo Map

1972



This report includes information from the following map sheet(s).

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W E
SW S SE

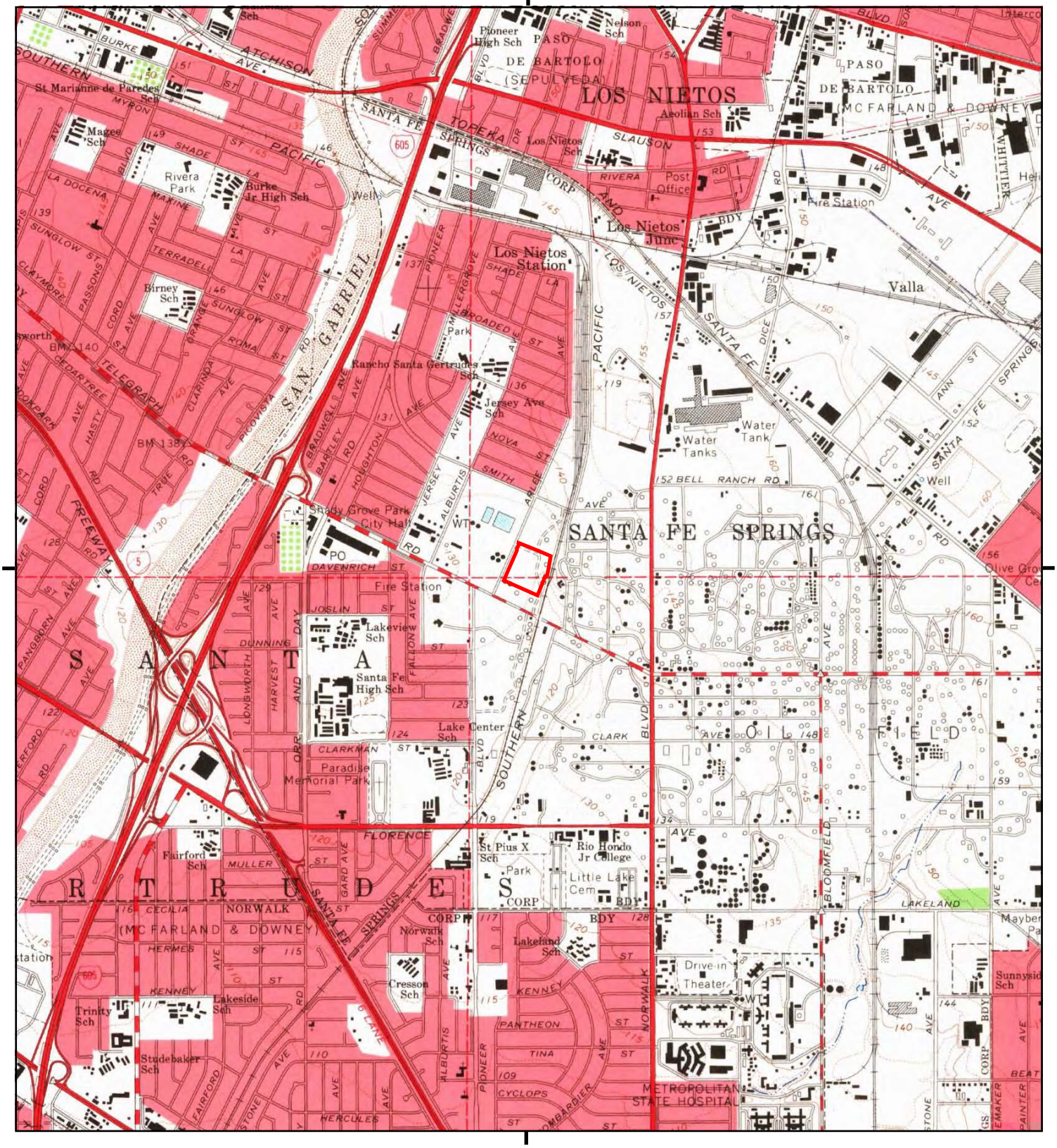
TP, Whittier, 1972, 7.5-minute

SITE NAME: 9920 Pioneer Blvd
ADDRESS: 9920 Pioneer Blvd
Santa Fe Springs, CA 90670
CLIENT: Hazard Management Consulting

N

Historical Topo Map

1965



This report includes information from the following map sheet(s).

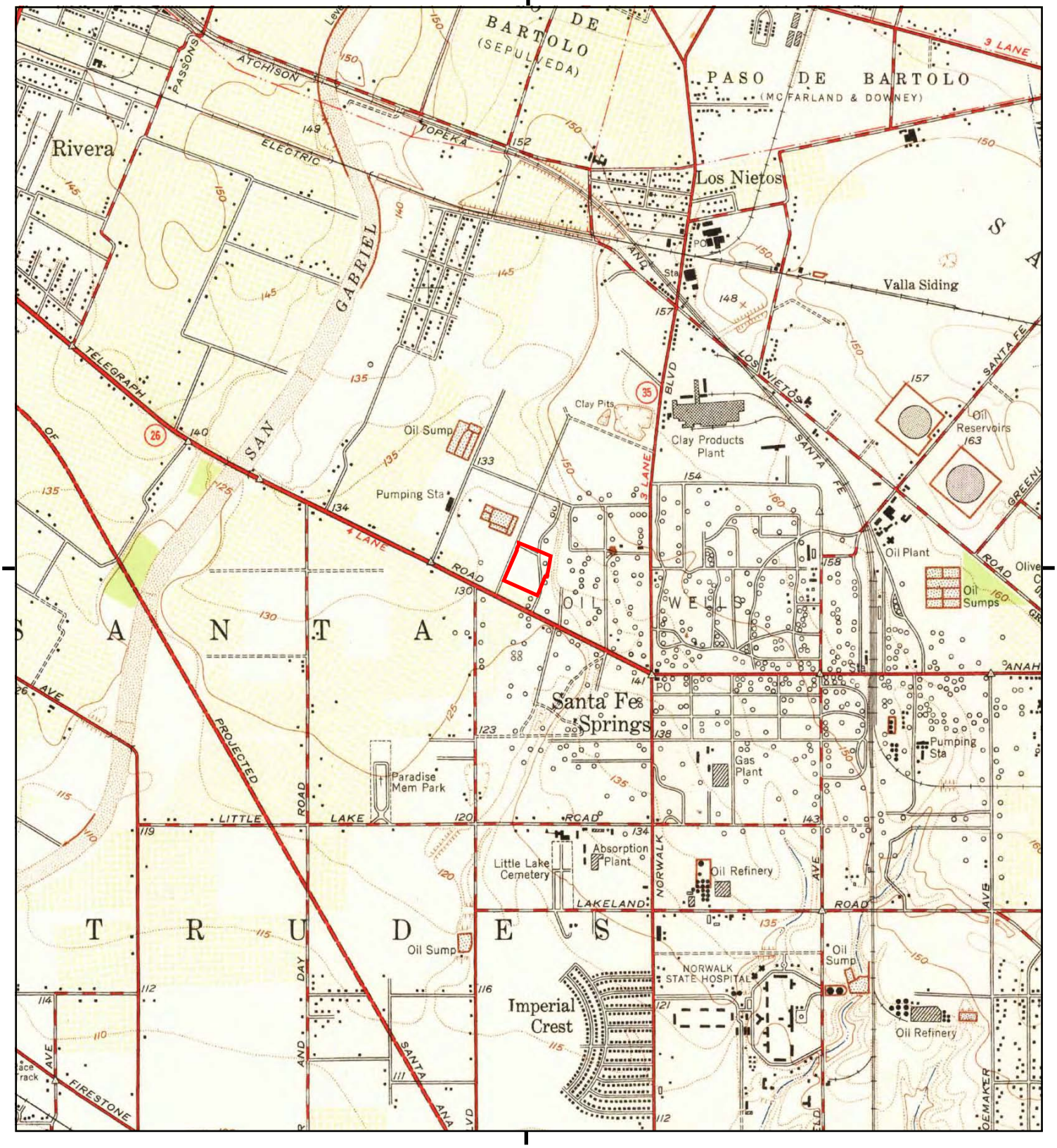
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Whittier, 1965, 7.5-minute

SITE NAME: 9920 Pioneer Blvd
ADDRESS: 9920 Pioneer Blvd
Santa Fe Springs, CA 90670
CLIENT: Hazard Management Consulting

N



This report includes information from the following map sheet(s).

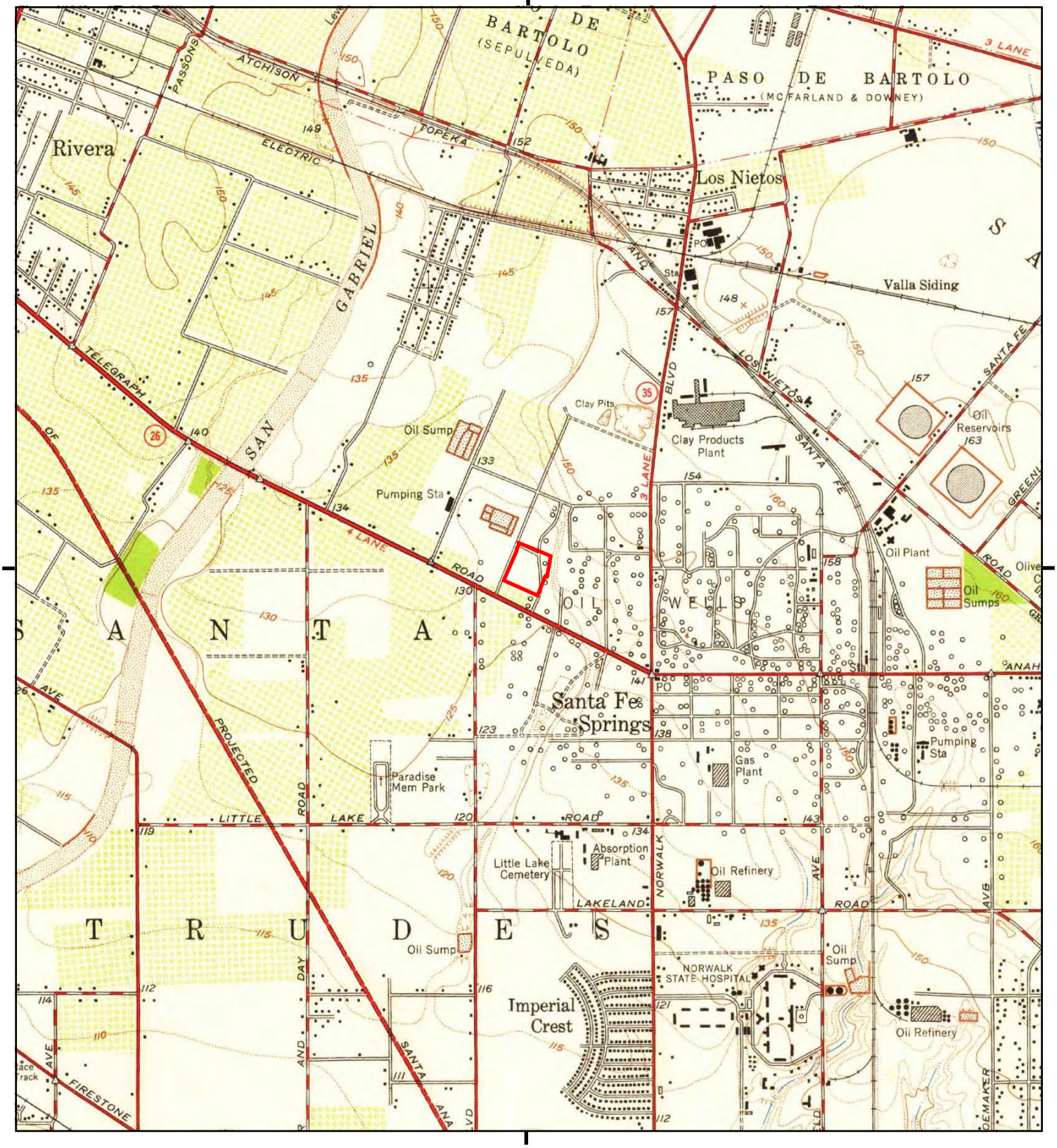
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Whittier, 1951, 7.5-minute

SITE NAME: 9920 Pioneer Blvd
ADDRESS: 9920 Pioneer Blvd
Santa Fe Springs, CA 90670
CLIENT: Hazard Management Consulting

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

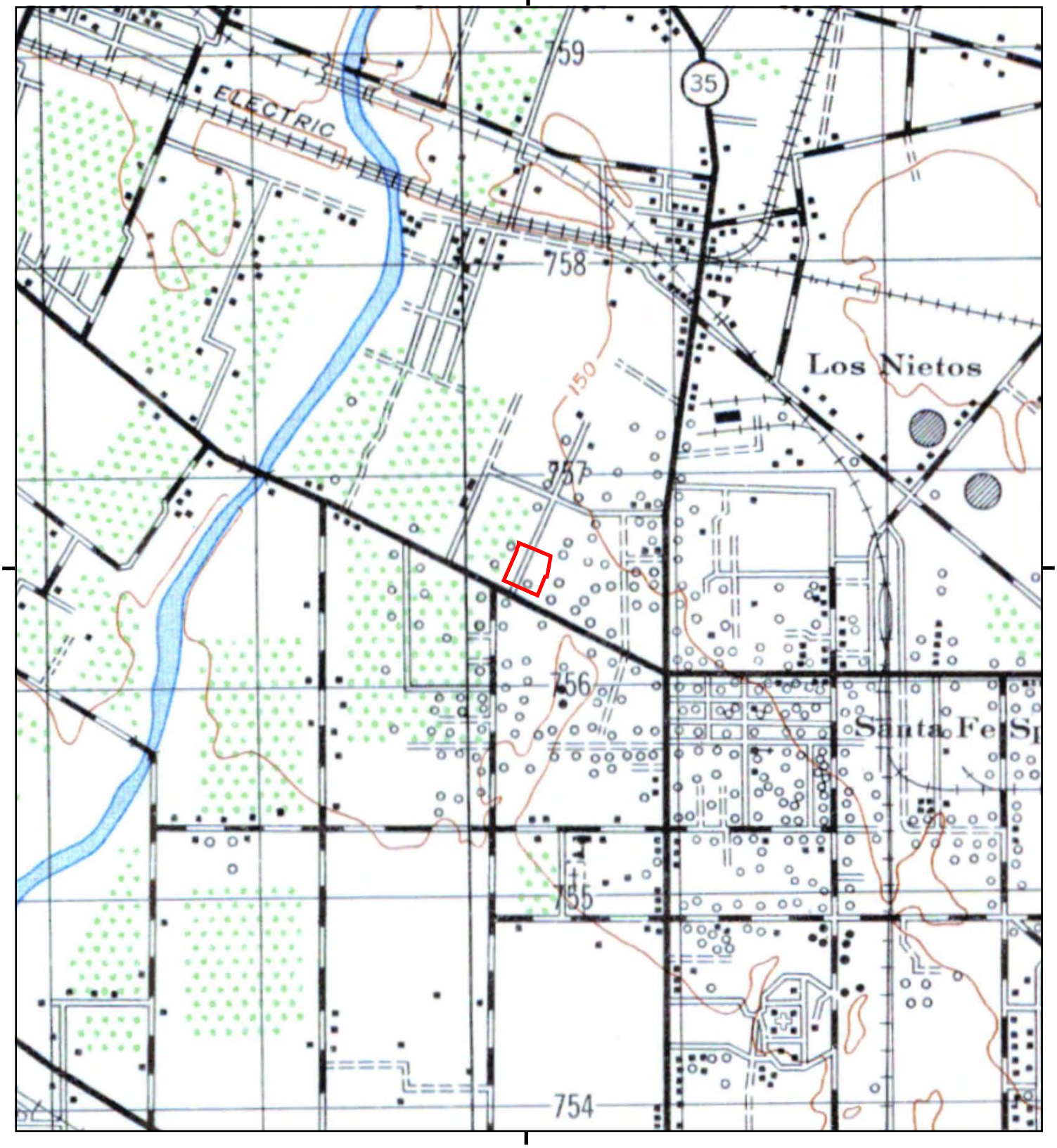
TP, Whittier, 1949, 7.5-minute

SITE NAME: 9920 Pioneer Blvd
ADDRESS: 9920 Pioneer Blvd
Santa Fe Springs, CA 90670
CLIENT: Hazard Management Consulting

N

Historical Topo Map

1947



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

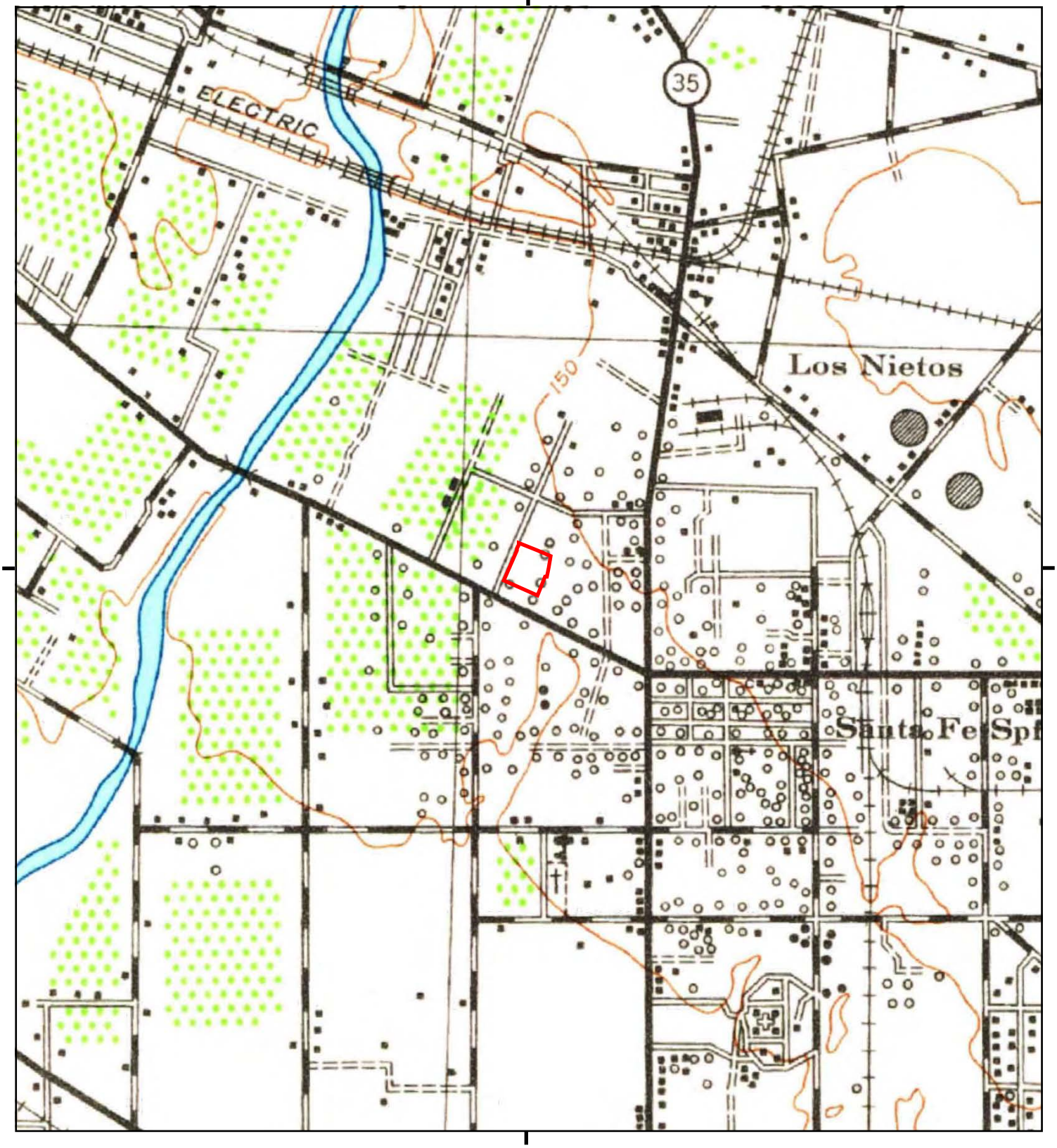
TP, DOWNEY, 1947, 15-minute

SITE NAME: 9920 Pioneer Blvd
ADDRESS: 9920 Pioneer Blvd
Santa Fe Springs, CA 90670
CLIENT: Hazard Management Consulting

N

Historical Topo Map

1943



This report includes information from the following map sheet(s).

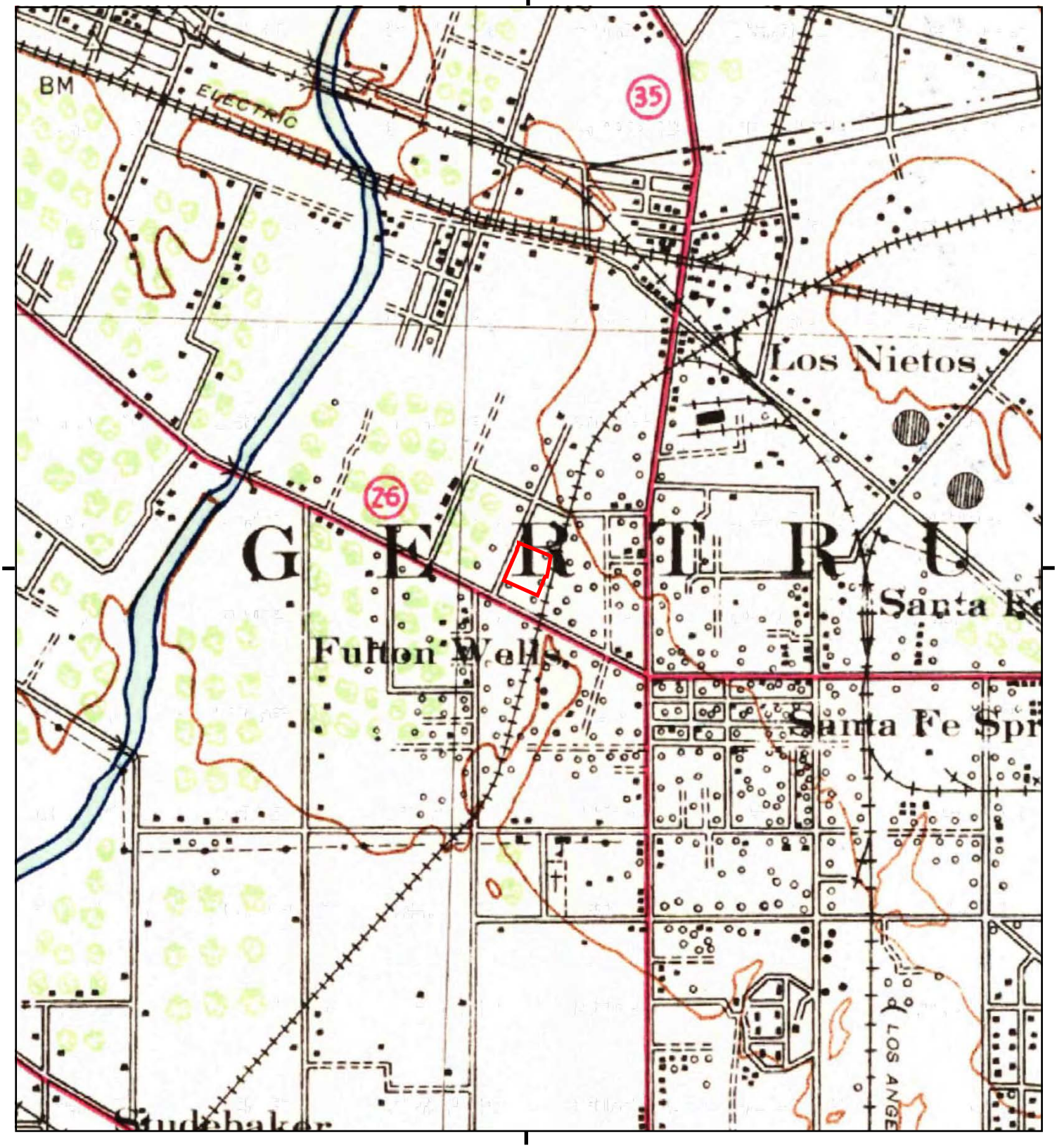
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1943, 15-minute

SITE NAME: 9920 Pioneer Blvd
ADDRESS: 9920 Pioneer Blvd
Santa Fe Springs, CA 90670
CLIENT: Hazard Management Consulting

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

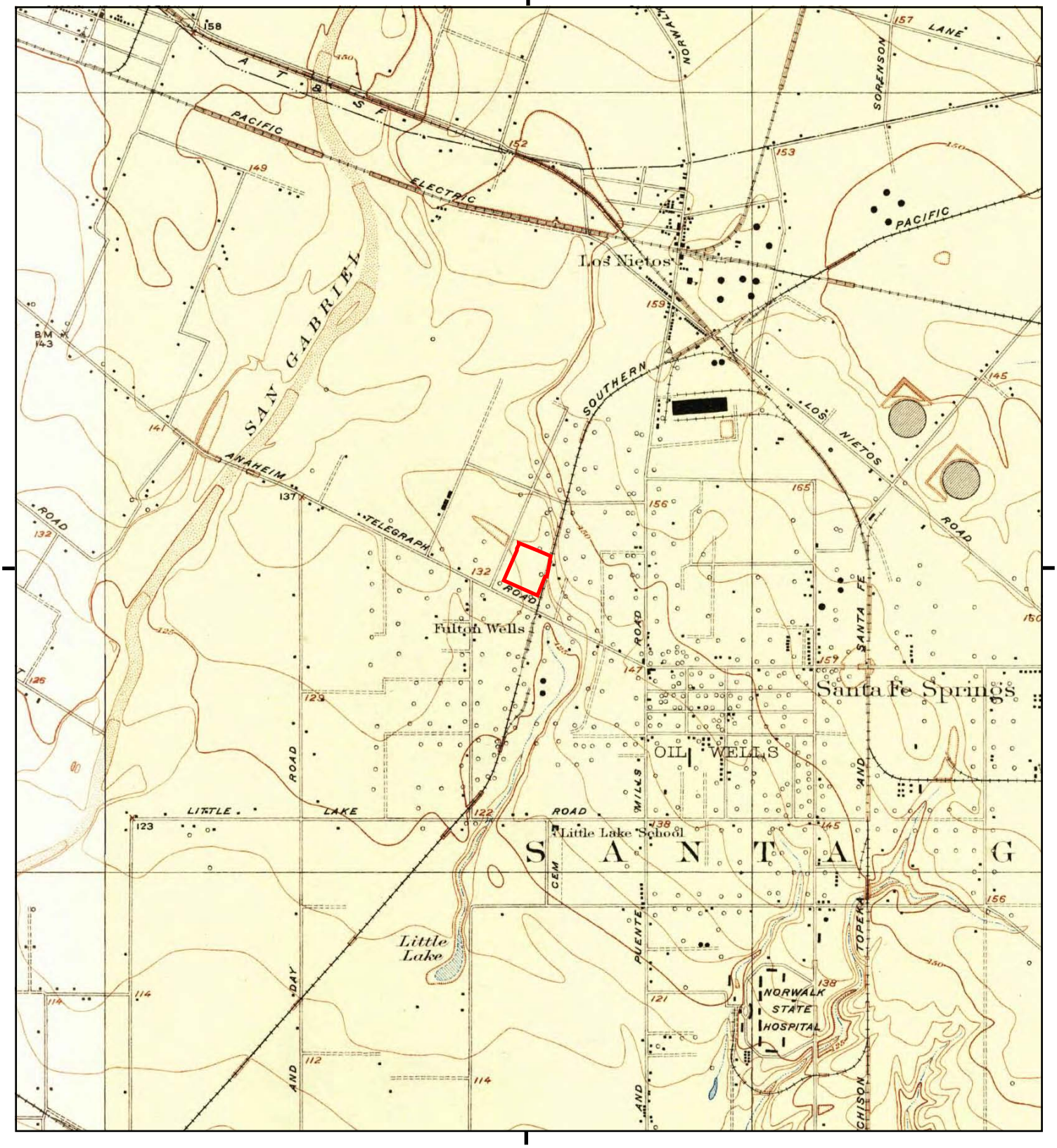
TP, Downey, 1942, 15-minute

SITE NAME: 9920 Pioneer Blvd
ADDRESS: 9920 Pioneer Blvd
Santa Fe Springs, CA 90670
CLIENT: Hazard Management Consulting

N

Historical Topo Map

1925



This report includes information from the following map sheet(s).

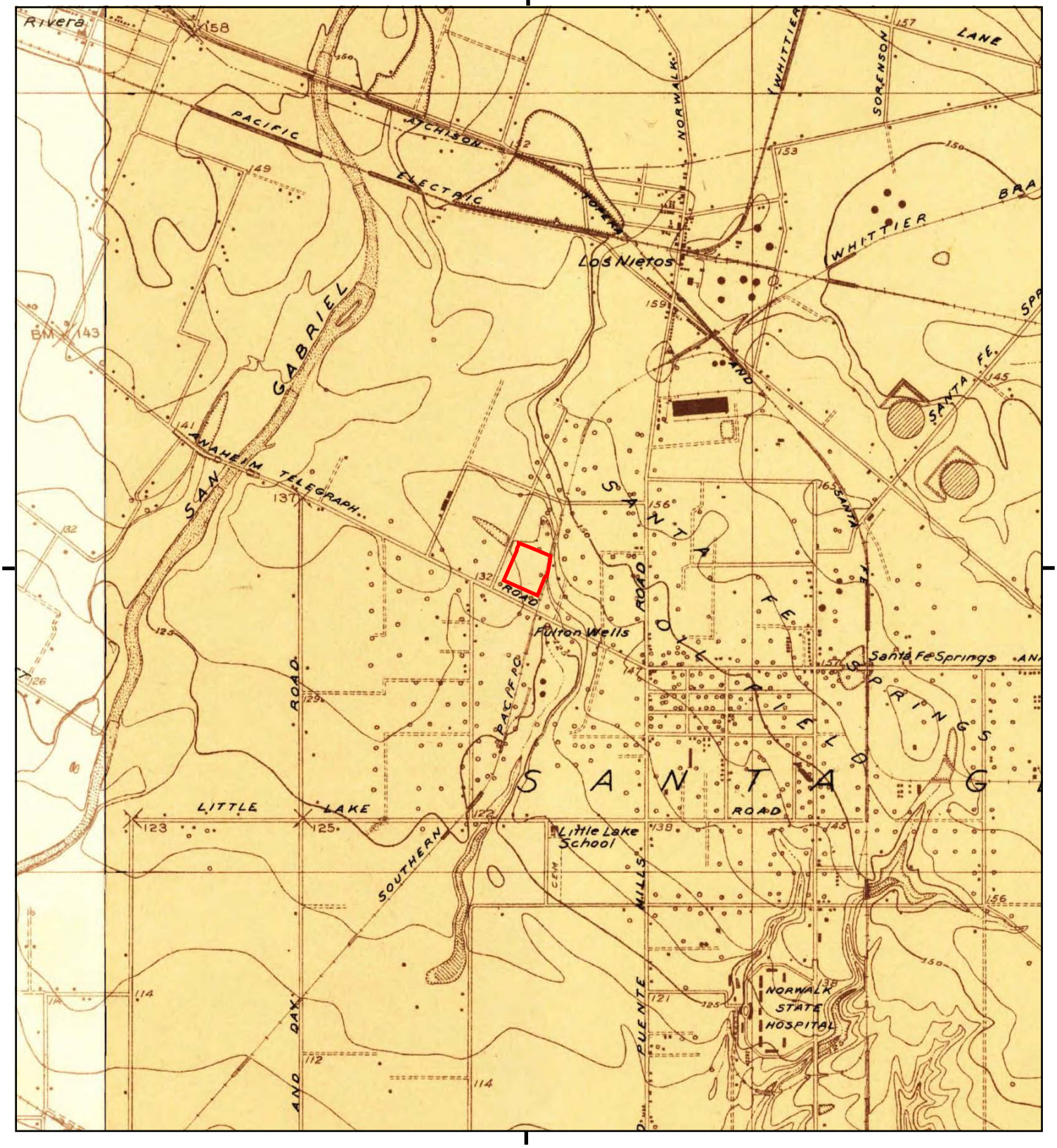
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Whittier, 1925, 7.5-minute
W, Bell, 1925, 7.5-minute

SITE NAME: 9920 Pioneer Blvd
ADDRESS: 9920 Pioneer Blvd
Santa Fe Springs, CA 90670
CLIENT: Hazard Management Consulting

N

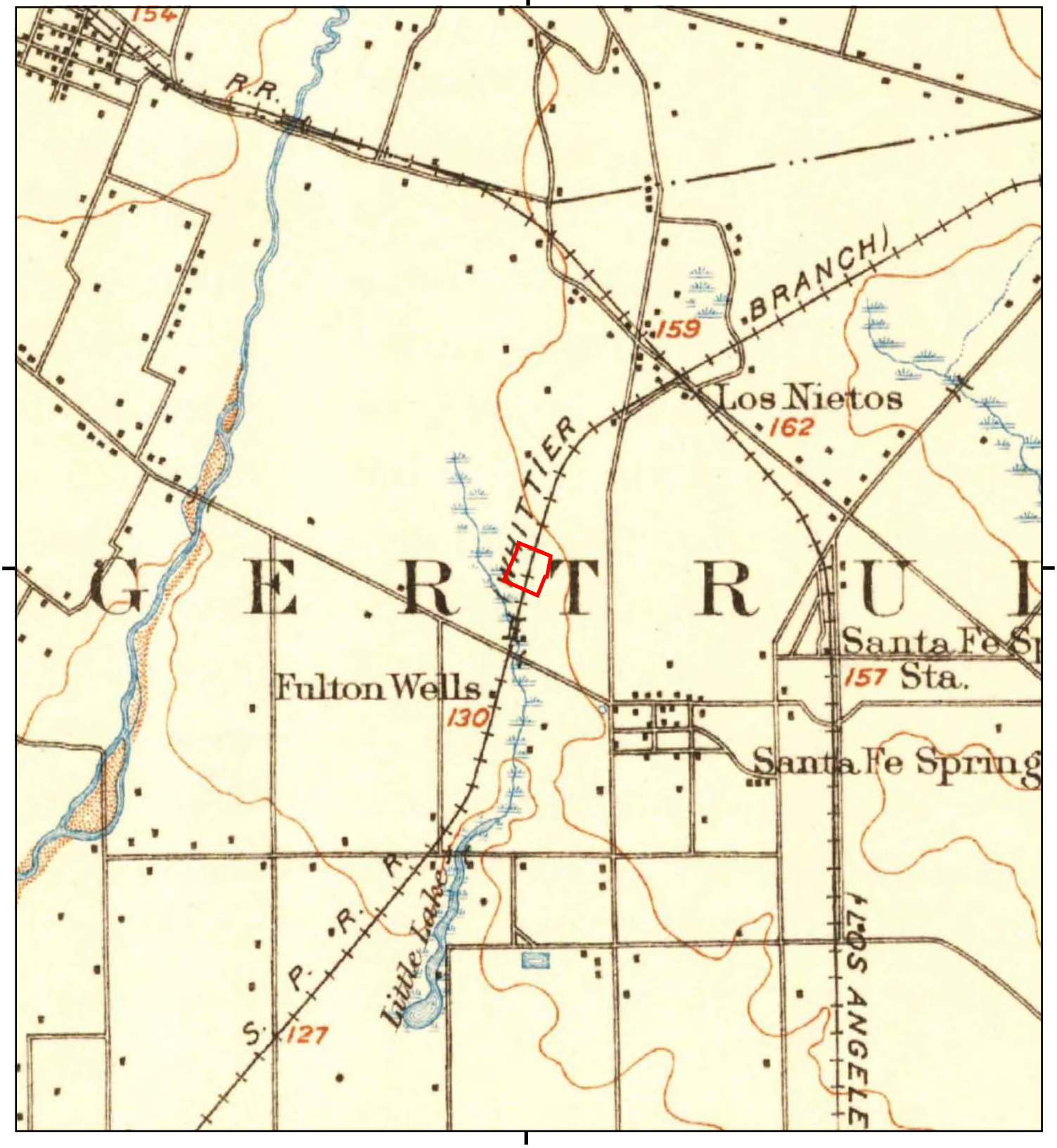


This report includes information from the following map sheet(s).

TP, Whittier, 1923, 7.5-minute
W, Bell, 1923, 7.5-minute

0 Miles 0.25 0.5 1 1.5

SITE NAME: 9920 Pioneer Blvd
ADDRESS: 9920 Pioneer Blvd
Santa Fe Springs, CA 90670
CLIENT: Hazard Management Consulting



This report includes information from the following map sheet(s).

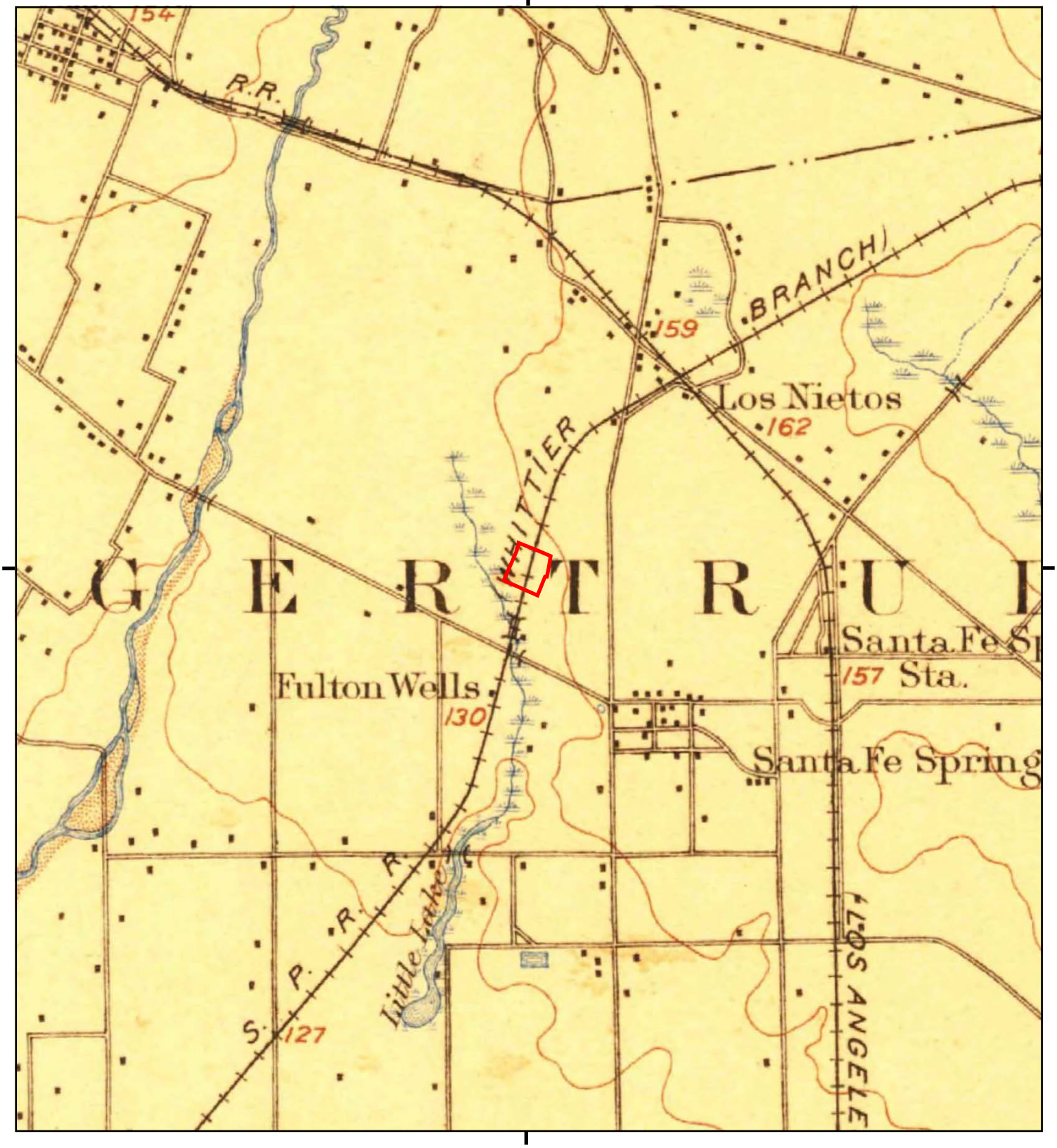
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1902, 15-minute

SITE NAME: 9920 Pioneer Blvd
ADDRESS: 9920 Pioneer Blvd
Santa Fe Springs, CA 90670
CLIENT: Hazard Management Consulting

N



This report includes information from the following map sheet(s).

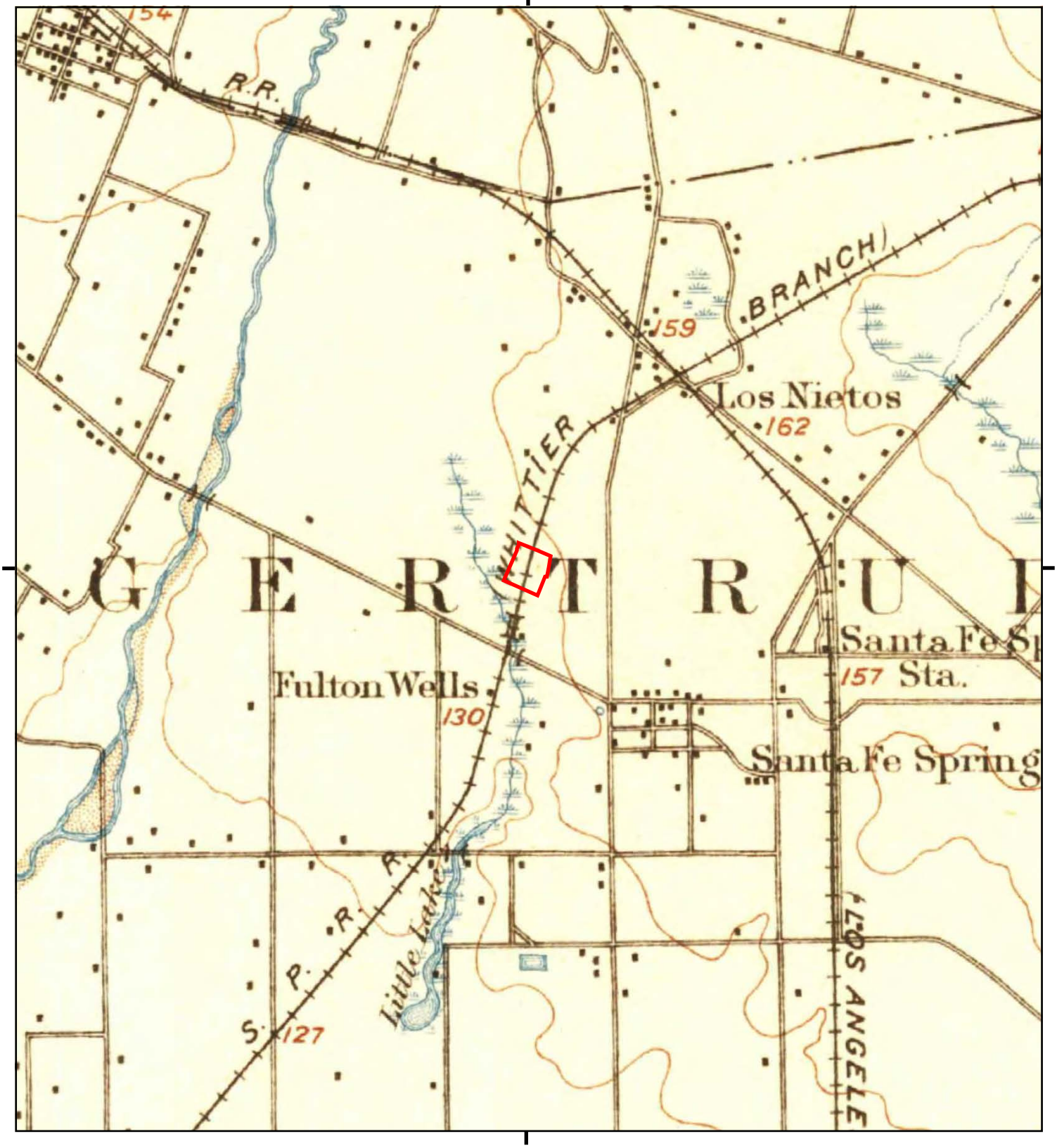
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1899, 15-minute

SITE NAME: 9920 Pioneer Blvd
ADDRESS: 9920 Pioneer Blvd
Santa Fe Springs, CA 90670
CLIENT: Hazard Management Consulting

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1896, 15-minute

SITE NAME: 9920 Pioneer Blvd
ADDRESS: 9920 Pioneer Blvd
Santa Fe Springs, CA 90670
CLIENT: Hazard Management Consulting

N

9920 Pioneer Blvd

9920 Pioneer Blvd

Santa Fe Springs, CA 90670

Inquiry Number: 5552600.8

February 05, 2019

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

02/05/19

Site Name:

9920 Pioneer Blvd
9920 Pioneer Blvd
Santa Fe Springs, CA 90670
EDR Inquiry # 5552600.8

Client Name:

Hazard Management Consulting
211 W. Avenida Cordoba
San Clemente, CA 92672
Contact: Troy Taylor

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Flight Date: June 11, 2002	USDA
1994	1"=500'	Acquisition Date: May 31, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 22, 1989	USDA
1983	1"=500'	Flight Date: November 19, 1983	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: May 29, 1977	EDR Proprietary Brewster Pacific
1970	1"=500'	Flight Date: February 17, 1970	EDR Proprietary Brewster Pacific
1963	1"=500'	Flight Date: February 28, 1963	USGS
1953	1"=500'	Flight Date: October 19, 1953	USDA
1947	1"=500'	Flight Date: June 18, 1947	FAIR
1938	1"=500'	Flight Date: May 23, 1938	USDA
1928	1"=500'	Flight Date: January 01, 1928	FAIR

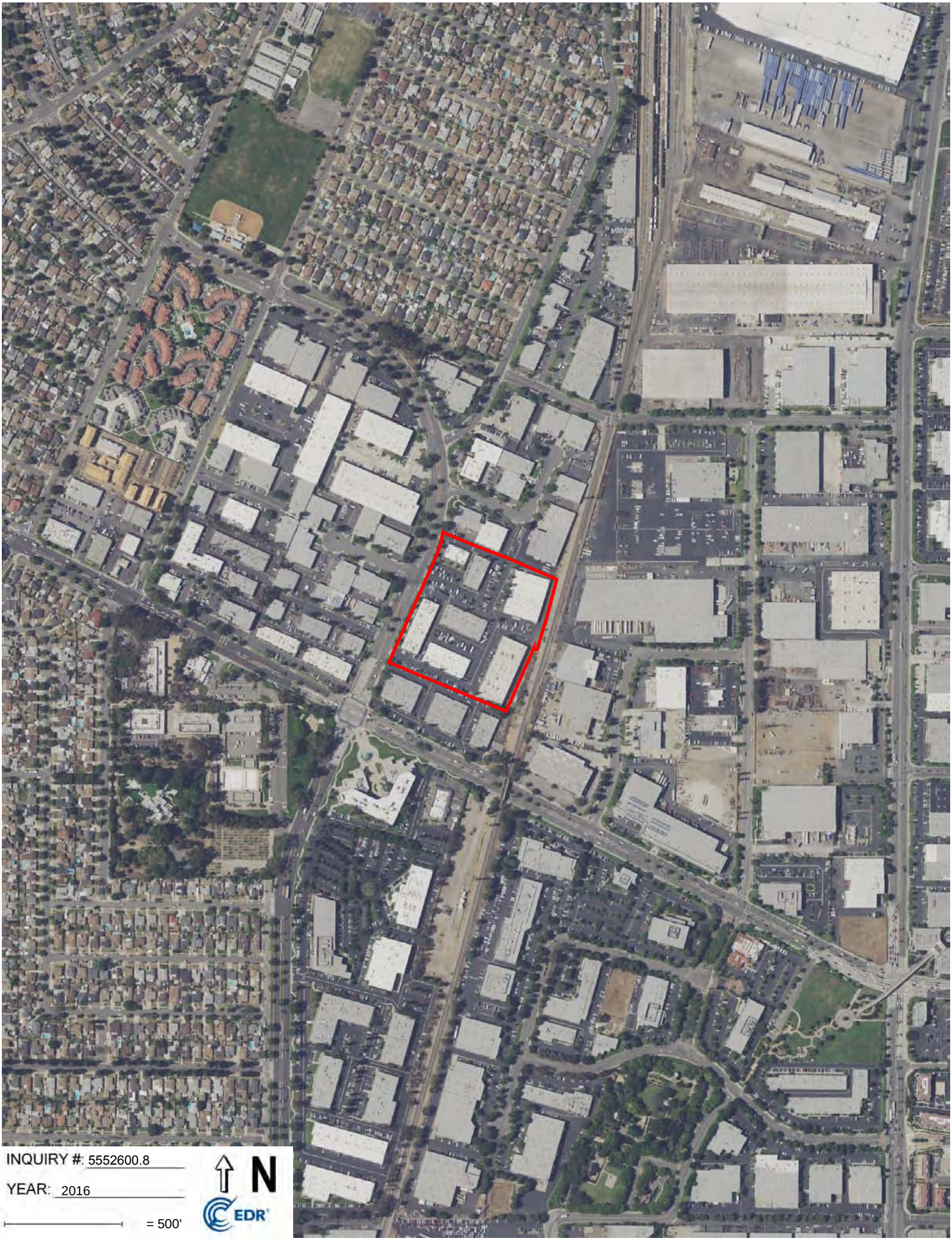
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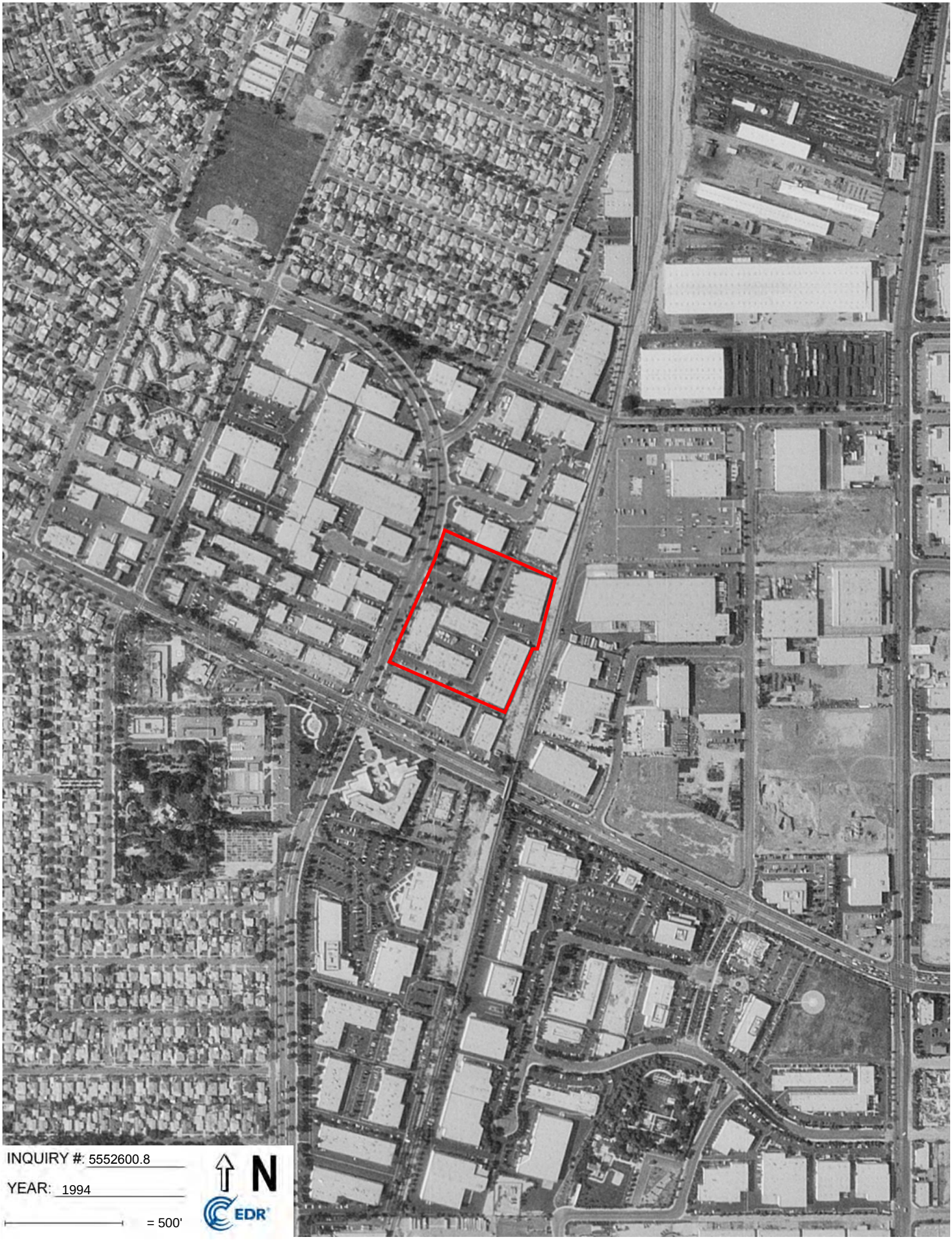

INQUIRY #: 5552600.8
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 5552600.8
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 5552600.8
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 5552600.8
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 5552600.8
YEAR: 2002
= 500'
N
EDR

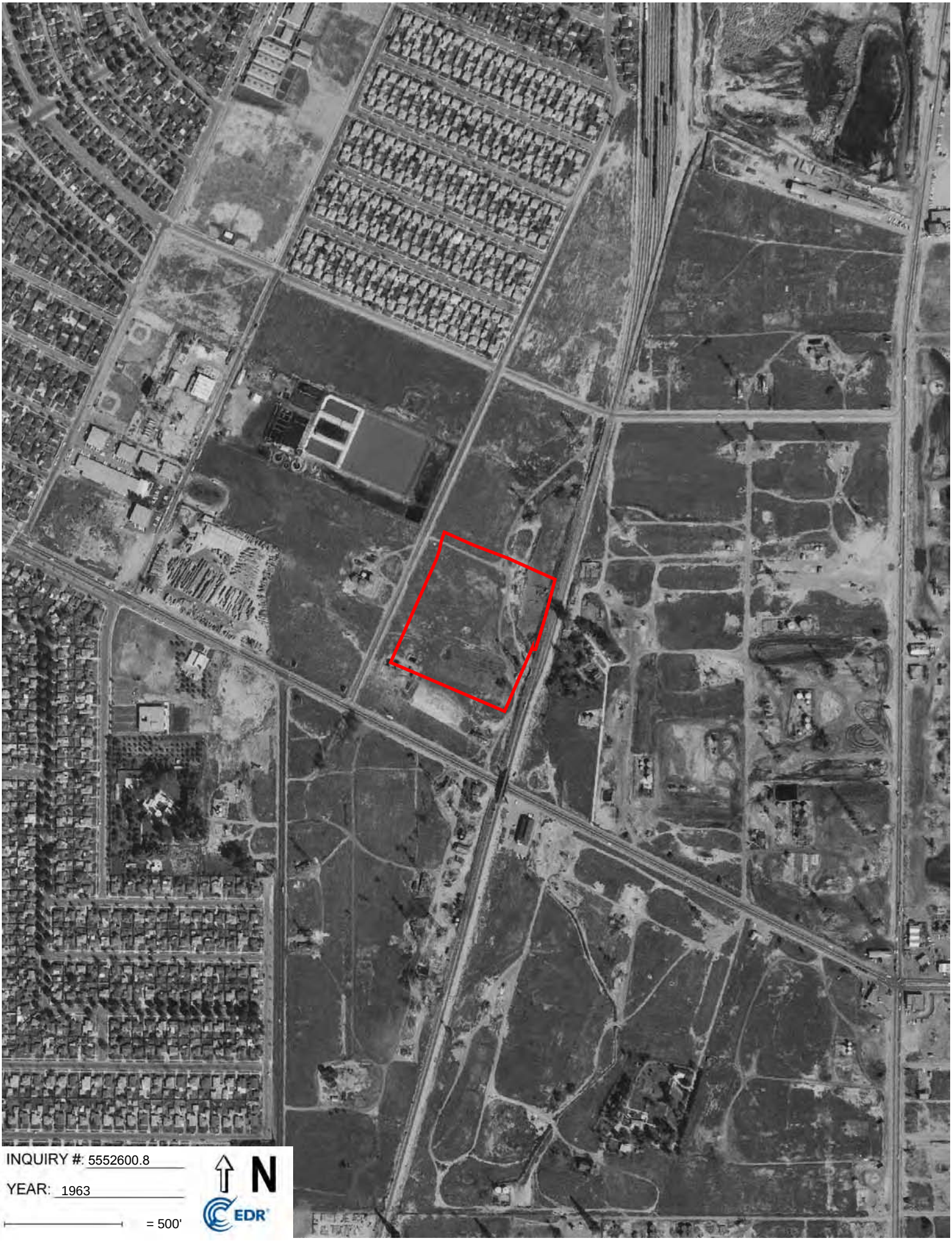

INQUIRY #: 5552600.8
YEAR: 1994
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EDR


INQUIRY #: 5552600.8
YEAR: 1989
= 500'
N
EDR

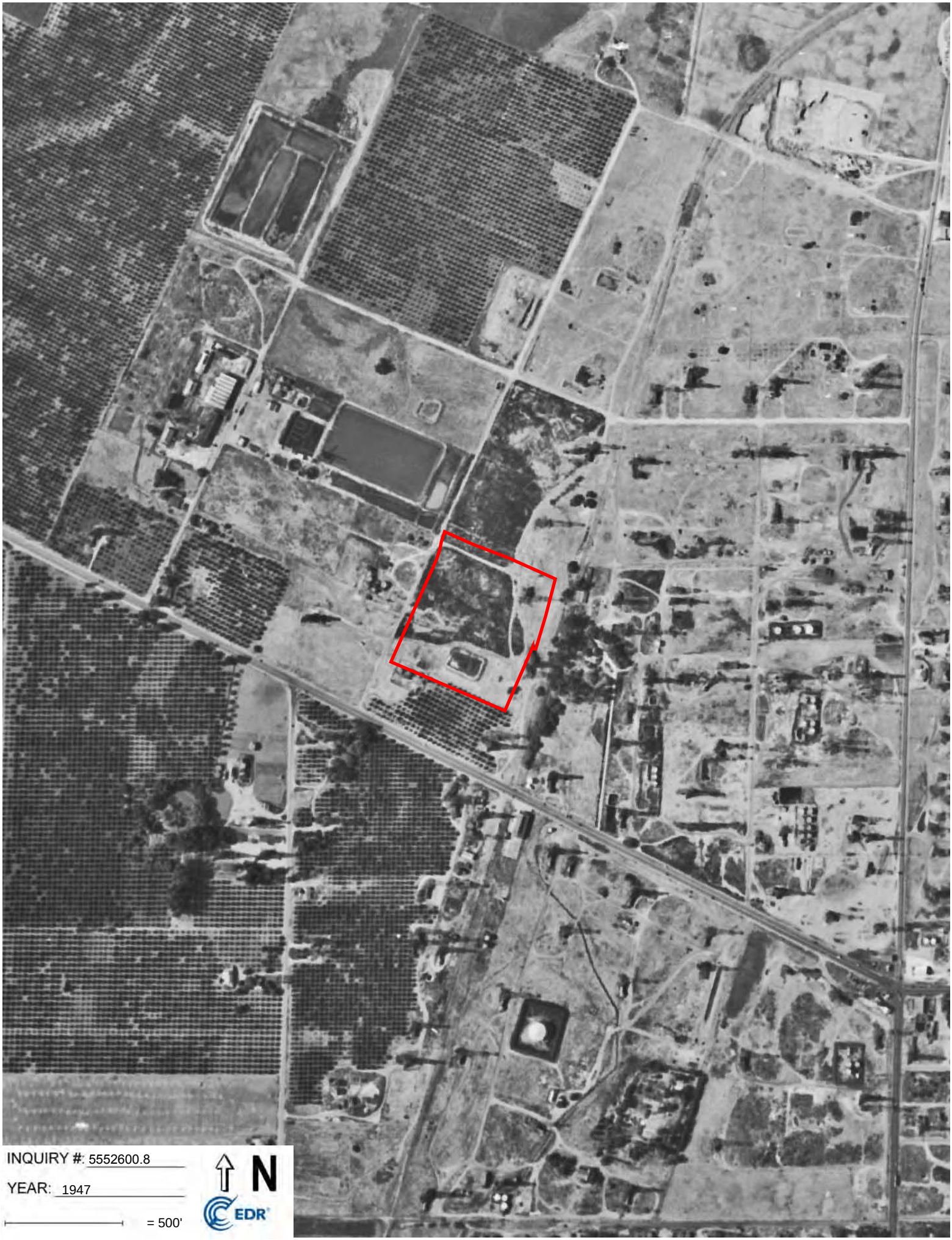

INQUIRY #: 5552600.8
YEAR: 1983
= 500'
N
EDR


INQUIRY #: 5552600.8
YEAR: 1977
= 500'
N
EDR


INQUIRY #: 5552600.8
YEAR: 1970
= 500'
N
EDR


INQUIRY #: 5552600.8
YEAR: 1963
= 500'
N
EDR


INQUIRY #: 5552600.8
YEAR: 1953
= 500'
N
EDR


INQUIRY #: 5552600.8
YEAR: 1947
= 500'
N
EDR


INQUIRY #: 5552600.8
YEAR: 1938
= 500'
N
EDR


INQUIRY #: 5552600.8
YEAR: 1928
= 500'
N
EDR

9920 Pioneer Blvd
9920 Pioneer Blvd
Santa Fe Springs, CA 90670

Inquiry Number: 5552600.2s
February 04, 2019

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	267
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-26
Physical Setting Source Map Findings	A-27
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

9920 PIONEER BLVD
SANTA FE SPRINGS, CA 90670

COORDINATES

Latitude (North):	33.9463510 - 33° 56' 46.86''
Longitude (West):	118.0790470 - 118° 4' 44.56''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	400285.3
UTM Y (Meters):	3756537.5
Elevation:	130 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5633777 WHITTIER, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140513
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
9920 PIONEER BLVD
SANTA FE SPRINGS, CA 90670

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	CIGNA HEALTH PLAN OF	9920 PIONEER BLVD	RCRA NonGen / NLR, FINDS, ECHO		TP
A2	CIGNA HEALTH PLAN OF	9920 PIONEER BLVD	HAZNET		TP
Reg	OMEGA CHEMICAL CORPO	12504 AND 12512 E. W	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG, US ENG..	Same	1 ft.
A3	COLORCOM INC	9930 PIONEER BLVD #1	HAZNET	Higher	1 ft.
A4	APRIA HEALTHCARE INC	9930 PIONEER BLVD ST	FINDS	Higher	1 ft.
A5	HARSHAW CHEMICAL CO	10016 S PIONEER BLVD	LOS ANGELES CO. HMS	Higher	1 ft.
A6	CIGNA HLTHCARE OF CA	9930 PINOEER BLVD ST	HAZNET	Higher	1 ft.
A7	ROLL PROPERTIES INTE	10010 PIONEER BLVD	HAZNET	Higher	1 ft.
A8	GRAPHIC TECHNOLOGY I	10010 PIONEER STE 10	RCRA-SQG, FINDS, ECHO, HAZNET	Higher	1 ft.
A9	WHITE LABORATORIES I	10016 S PIONEER BLVD	LOS ANGELES CO. HMS	Higher	1 ft.
A10	ROLL PROPERTIES INTE	9930 PIONEER BLVD #1	HAZNET	Higher	1 ft.
B11	MEPCO OIL INC	10016 PIONEER BLVD	EDR Hist Auto	Lower	9, 0.002, WSW
B12	SANTA FE SPRINGS IND	10044 PIONEER INDUST	RCRA-SQG, HAZNET	Lower	61, 0.012, WSW
B13	DELTA MAGNETICS INC	10039 S PIONEER	RCRA-SQG, FINDS, ECHO	Higher	91, 0.017, West
C14	INGERSOLL RAND	11909 E TELEGRAPH RD	RCRA-SQG, FINDS, ECHO, HAZNET	Lower	217, 0.041, SSW
C15	SMITHKLINE BIO SCIEN	11871 E TELEGRAPH RD	RCRA-SQG, FINDS, ECHO	Lower	231, 0.044, SSW
C16	PEDRO PETROLEUM	11916 TELEGRAPH	HIST CORTESE	Lower	382, 0.072, South
C17	PEDRO PETROLEUM	11916 TELEGRAPH RD E	LUST, LOS ANGELES CO. HMS	Lower	382, 0.072, South
D18	W T BILLARD INC	10261 MATERN PL	SWEEPS UST	Higher	422, 0.080, SE
E19	S M W SYSTEMS	9828 S ARLEE	RCRA-SQG, FINDS, ECHO	Higher	425, 0.080, North
F20	A J VAN BASTELAAR	10035 GEARY AVE	SWEEPS UST	Higher	463, 0.088, East
E21	ELLISON MACHINERY CO	9890 S PIONEER BLVD	RCRA-SQG, FINDS, ECHO	Higher	519, 0.098, North
F22	ROSE PAVING COMPANY	10200 MATERN PL	AST	Higher	534, 0.101, ESE
23	PARTS EXPEDITING & D	11704 E WILLAKE ST	SWEEPS UST	Higher	535, 0.101, WNW
D24	ANDY PEYKOFF-ROCKY M	10260 MATERN PL	SWEEPS UST	Higher	560, 0.106, SE
G25	ROHBACK COSASCO SYST	11841 SMITH	RCRA-SQG, FINDS, ECHO, EMI	Higher	760, 0.144, NNE
G26	SPIDER CA SAFEWORKS	11801 E SMITH AVE	RCRA-SQG	Higher	760, 0.144, North
H27	SCE - WHITTIER SERVI	9901 S GEARY AVE	AST, LOS ANGELES CO. HMS	Higher	881, 0.167, ENE
H28	SOUTHERN CALIFORNIA	9901 GEARY	AST	Higher	881, 0.167, ENE
H29	WHITTIER CSO	9901 GEARY AVE.	RCRA-LQG, FINDS, ECHO	Higher	881, 0.167, ENE
H30	SO CAL EDISON WHITTI	9901 GEARY AVE	SWEEPS UST	Higher	881, 0.167, ENE
31	MARK ANTHONY INC	10040 GEARY AVE	RCRA-SQG, CHMIRS, FINDS, ECHO, EMI, HAZNET	Higher	942, 0.178, East
I32	DARCO INC	10135 S GEARY AVE	SWEEPS UST	Higher	963, 0.182, ESE
I33	DARCO INC	10135 GEARY AVE	RCRA-SQG, FINDS, ECHO, HAZNET	Higher	963, 0.182, ESE
J34	SMITH AVENUE	11919 SMITH AVENUE	HIST UST, NPDES, CIWQS	Higher	981, 0.186, NE
J35	R J M COMPANY	11919 SMITH DR	SWEEPS UST	Higher	981, 0.186, NE
I36	DARCO USA, INC.	10145 GEARY AVE	WMUDS/SWAT	Higher	996, 0.189, ESE
K37	FIRE STATION 4	11736 TELEGRAPH RD	HIST UST	Higher	1007, 0.191, West
K38	CITY OF SANTA FE SPR	11736 TELEGRAPH	LUST, HIST CORTESE	Higher	1007, 0.191, West

MAPPED SITES SUMMARY

Target Property Address:
9920 PIONEER BLVD
SANTA FE SPRINGS, CA 90670

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
K39	CITY OF SANTA FE SPR	11736 TELEGRAPH RD	UST	Higher	1007, 0.191, West
K40	CITY OF SANTA FE SPR	11736 E TELEGRAPH RD	SWEEPS UST, CA FID UST, LOS ANGELES CO. HMS	Higher	1007, 0.191, West
41	MOBIL OIL CORP DJG C	COR GEARY TELEGRAPH	RCRA-SQG	Higher	1133, 0.215, SE
L42	SANTA CLARITA SANITA	9814 ALBUTIS AVENUE	SWF/LF	Higher	1134, 0.215, WNW
L43	SANTA FE SPRINGS WAS	9814 SOUTH ALBUSTIS	ENVIROSTOR, WMUDS/SWAT	Higher	1143, 0.216, NW
44	ANCHOR LITH-KEM-KO W	9750 ALBURTIS AVE	RCRA-SQG, FINDS, ECHO	Higher	1167, 0.221, NW
45	SOUTHERN CALIFORNIA	SMITH AVE	CPS-SLIC	Higher	1203, 0.228, NNW
M46	UNOCAL #5435	11651 TELEGRAPH RD	LUST	Higher	1277, 0.242, West
M47	SANTA FE ENERGY	11651 TELEGRAPH ROAD	LUST, HAZNET, NPDES, CIWQS	Higher	1277, 0.242, West
M48	UNION OIL SERVICE ST	11651 TELEGRAPH	HIST UST	Higher	1277, 0.242, West
M49	UNOCAL JACK K MARTIN	11651 E TELEGRAPH RD	SWEEPS UST	Higher	1277, 0.242, West
M50	SANTA FE ENERGY	11651 TELEGRAPH RD	UST	Higher	1277, 0.242, West
M51	SANTA FE ENERGY, INC	11651 TELEGRAPH RD	LUST, HAZNET, HIST CORTESE	Higher	1277, 0.242, West
M52	SERVICE STATION 5435	11651 TELEGRAPH	HIST UST	Higher	1277, 0.242, West
N53	STATEFARM PROPERTY	GEARY AVE	CPS-SLIC	Higher	1358, 0.257, ENE
N54	STATE FARM INSURANCE	GEARY AVE	CPS-SLIC, CHMIRS	Higher	1358, 0.257, ENE
N55	PEDCO	9911 NORWALK	LUST	Higher	1498, 0.284, ENE
O56	UNOCAL - SANTA FE SP	10122 NORWALK	CPS-SLIC	Higher	1620, 0.307, East
O57	ATLAS RADIATOR, INCO	10110 NORWALK BLVD	ENVIROSTOR, VCP, CHMIRS	Higher	1652, 0.313, East
P58	CHEVRON #9-5306	12155 TELEGRAPH RD	LUST	Higher	1815, 0.344, SE
P59	CHEVRON #9-5306	12155 TELEGRAPH RD	LUST, HIST CORTESE	Higher	1815, 0.344, SE
60	SANTA FE SPRINGS ATH	PIONEER/JERSEY AVENU	ENVIROSTOR, VCP	Higher	1825, 0.346, NW
61	LAKEVIEW PARK RECREA	JOSLIN STREET AND JE	ENVIROSTOR, SCH	Higher	1873, 0.355, WSW
Q62	SHAMROCK TIRE & CHRO	10332 S NORWALK BLVD	SEMS-ARCHIVE	Higher	1915, 0.363, ESE
Q63	SHAMROCK TIRE & WHEE	10332 SOUTH NORWALK	ENVIROSTOR, HIST CORTESE	Higher	1915, 0.363, ESE
R64	COPLEY SANTA FE SPRI	9750 NORWALK BLVD	RCRA-SQG, LUST, FINDS, ECHO	Higher	2041, 0.387, NE
R65	SANTA FE TRUCK TERMI	9750 NORWALK	LUST, HIST UST, HIST CORTESE	Higher	2041, 0.387, NE
66	WOHL PROPETY GROUP I	TELEGRAPH RD & NORWA	CPS-SLIC	Higher	2158, 0.409, SE
67	HERITAGE CORPORATE C	10445 NORWALK BLVD S	LUST, HIST CORTESE	Higher	2446, 0.463, SE
S68	LOS ANGELES BY-PRODU	9615 S NORWALK BLVD	SEMS-ARCHIVE	Higher	2506, 0.475, NE
S69	L.A. BY-PRODUCTS - S	9615 SOUTH NORWALK B	ENVIROSTOR, HIST UST, LDS, NPDES, CIWQS	Higher	2506, 0.475, NE
S70	L.A. BY PRODUCTS-SAN	9615 SOUTH NORWALK B	WMUDS/SWAT	Higher	2557, 0.484, NE
71	HATHAWAY OIL COMPANY	12250 EAST TELEGRAPH	ENVIROSTOR	Higher	2567, 0.486, SE
72	LITTLE LAKE CITY SCH	10515 PIONEER	LUST, HIST CORTESE, LOS ANGELES CO. HMS	Lower	2618, 0.496, SSW
73	JERSEY AVENUE ELEMEN	9400 JERSEY AVENUE	ENVIROSTOR, SCH	Higher	2649, 0.502, NNW
74	IMPERIAL ANCHOR PALL	12246 PARK AVENUE	ENVIROSTOR, HIST CORTESE	Higher	2857, 0.541, SE
75	MOBIL OIL/JALK FEE	10607 NORWALK BOULEV	RESPONSE, ENVIROSTOR, CPS-SLIC, LA Co. Site...	Higher	3159, 0.598, SSE
76	WHITTIER PLATING CO.	11642 E PIKE ST	SEMS-ARCHIVE, CORRACTS, RCRA-SQG, ENVIROSTOR,...	Higher	3299, 0.625, NNE
77	CONTINENTAL HEAT TRE	10643 NORWALK	ENVIROSTOR, CPS-SLIC, AST, NPDES, CIWQS	Higher	3487, 0.660, SSE

MAPPED SITES SUMMARY

Target Property Address:
9920 PIONEER BLVD
SANTA FE SPRINGS, CA 90670

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
78	TROJAN BATTERY CO	12380 E CLARK ST	ENVIROSTOR, LOS ANGELES CO. HMS	Higher	3601, 0.682, SE
79	ALL PURE CHEMICAL CO	11600 PIKE STREET	ENVIROSTOR, WDS	Higher	3776, 0.715, NNE
80	FINELINE PAINT CORP.	12200 LOS NIETOS	ENVIROSTOR, HIST CORTESE	Higher	4316, 0.817, ENE
T81	DICE ROAD/LOS NIETOS	9165 DICE ROAD	ENVIROSTOR, SWF/LF, WMUDS/SWAT	Higher	4417, 0.837, NE
T82	ELECTRONIC CHROME CO	9132 DICE RD	ENVIROSTOR, HIST UST, EMI	Higher	4536, 0.859, NE
83	BEAUMON TRUST PROPER	12525 PARK AVENUE	RESPONSE, ENVIROSTOR	Higher	4679, 0.886, ESE
84	PLATE SHOP THE	10701 FOREST ST	SEMS-ARCHIVE, ENVIROSTOR, RCRA NonGen / NLR,...	Higher	4762, 0.902, SE
85	ENVIROFORM INDUSTRIE	9624 JOHN ST	NPDES, Notify 65	Higher	4798, 0.909, ENE
86	PRESSURE VESSEL SERV	12522 LOS NIETOS ROA	ENVIROSTOR	Higher	5162, 0.978, ENE
87	PMC SPECIALTIES GRP	10051 ROMANDEL AVE	RCRA-SQG, ENVIROSTOR, LUST, CPS-SLIC, VCP, EMI,...	Higher	5200, 0.985, East

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
CIGNA HEALTH PLAN OF 9920 PIONEER BLVD SANTA FE SPRINGS, CA 90670	RCRA NonGen / NLR EPA ID:: CAD981453855 FINDS Registry ID:: 110002712663 ECHO Registry ID: 110002712663	CAD981453855
CIGNA HEALTH PLAN OF 9920 PIONEER BLVD SANTA FE SPRINGS, CA 90678	HAZNET GEPAID: CAD981453855	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ..... Federal Facility Site Information listing

Federal RCRA generators list

RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System

Federal ERNS list

ERNS ..... Emergency Response Notification System

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY ---------- Recycler Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
AOCONCERN ---------- Key Areas of Concerns in Los Angeles County
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
CERS HAZ WASTE ---------- CERS HAZ WASTE
US CDL ---------- National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CERS TANKS ---------- California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS ---------- Environmental Liens Listing
LIENS 2 ---------- CERCLA Lien Information
DEED ---------- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System

CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
RMP	Risk Management Plans
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	ICE
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
LA Co. Site Mitigation	Site Mitigation List
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)

WASTEWATER PITS Oil Wastewater Pits Listing
WDS Waste Discharge System
MILITARY PRIV SITES MILITARY PRIV SITES (GEOTRACKER)
PROJECT PROJECT (GEOTRACKER)
WDR Waste Discharge Requirements Listing
CIWQS California Integrated Water Quality System
CERS CERS
WIP Well Investigation Program Case List
NON-CASE INFO NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF Recovered Government Archive Solid Waste Facilities List
RGA LUST Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 12/12/2018 has revealed that there is 1 NPL

site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OMEGA CHEMICAL CORPO	***12504 AND 12512 E. W***	***0 - 1/8 (0.000 mi.)***	***0***	***12***
Cerclis ID:: 903349				
EPA Id: CAD042245001				

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 12/12/2018 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OMEGA CHEMICAL CORPO	***12504 AND 12512 E. W***	***0 - 1/8 (0.000 mi.)***	***0***	***12***
Site ID: 0903349				
EPA Id: CAD042245001				

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 12/13/2018 has revealed that there are 2 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SHAMROCK TIRE & CHRO	10332 S NORWALK BLVD	ESE 1/4 - 1/2 (0.363 mi.)	Q62	168
Site ID: 0902417				
EPA Id: CAD981419203				
LOS ANGELES BY-PRODU	9615 S NORWALK BLVD	NE 1/4 - 1/2 (0.475 mi.)	S68	178
Site ID: 0902237				

EXECUTIVE SUMMARY

EPA Id: CAD980893655

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/01/2018 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OMEGA CHEMICAL CORPO EPA ID:: CAD042245001	***12504 AND 12512 E. W***	***0 - 1/8 (0.000 mi.)***	***0***	***12***
WHITTIER PLATING CO. EPA ID:: CAD008495129	***11642 E PIKE ST***	***NNE 1/2 - 1 (0.625 mi.)***	***76***	***206***

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OMEGA CHEMICAL CORPO EPA ID:: CAD042245001	***12504 AND 12512 E. W***	***0 - 1/8 (0.000 mi.)***	***0***	***12***

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OMEGA CHEMICAL CORPO	***12504 AND 12512 E. W***	***0 - 1/8 (0.000 mi.)***	***0***	***12***

EPA ID:: CAD042245001

WHITTIER CSO EPA ID:: CA0000235689	***9901 GEARY AVE.***	***ENE 1/8 - 1/4 (0.167 mi.)***	***H29***	***88***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 13 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GRAPHIC TECHNOLOGY I EPA ID:: CAD983650896	***10010 PIONEER STE 10***	***0 - 1/8 (0.000 mi.)***	***A8***	***63***
DELTA MAGNETICS INC EPA ID:: CAD982517997	***10039 S PIONEER***	***W 0 - 1/8 (0.017 mi.)***	***B13***	***69***
S M W SYSTEMS EPA ID:: CA0000370916	***9828 S ARLEE***	***N 0 - 1/8 (0.080 mi.)***	***E19***	***77***
ELLISON MACHINERY CO EPA ID:: CAD981976855	***9890 S PIONEER BLVD***	***N 0 - 1/8 (0.098 mi.)***	***E21***	***79***
ROHBACK COSASCO SYST EPA ID:: CAD982030413	***11841 SMITH***	***NNE 1/8 - 1/4 (0.144 mi.)***	***G25***	***83***
SPIDER CA SAFEWORKS EPA ID:: CAD982435570	11801 E SMITH AVE	N 1/8 - 1/4 (0.144 mi.)	G26	85
MARK ANTHONY INC EPA ID:: CAD982502841	***10040 GEARY AVE***	***E 1/8 - 1/4 (0.178 mi.)***	***31***	***94***
DARCO INC EPA ID:: CAD982504599	***10135 GEARY AVE***	***ESE 1/8 - 1/4 (0.182 mi.)***	***I33***	***106***
MOBIL OIL CORP DJG C EPA ID:: CAD000627984	COR GEARY TELEGRAPH	SE 1/8 - 1/4 (0.215 mi.)	41	118
ANCHOR LITH-KEM-KO W EPA ID:: CAT080032899	***9750 ALBURTIS AVE***	***NW 1/8 - 1/4 (0.221 mi.)***	***44***	***122***

Lower Elevation	Address	Direction / Distance	Map ID	Page
SANTA FE SPRINGS IND EPA ID:: CAR000153288	***10044 PIONEER INDUST***	***WSW 0 - 1/8 (0.012 mi.)***	***B12***	***67***
INGERSOLL RAND EPA ID:: CA0000069864	***11909 E TELEGRAPH RD***	***SSW 0 - 1/8 (0.041 mi.)***	***C14***	***71***
SMITHKLINE BIO SCIEN EPA ID:: CAD982525941	***11871 E TELEGRAPH RD***	***SSW 0 - 1/8 (0.044 mi.)***	***C15***	***73***

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 07/31/2018 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OMEGA CHEMICAL CORPO	***12504 AND 12512 E. W***	***0 - 1/8 (0.000 mi.)***	***0***	***12***
EPA ID:: CAD042245001				
EPA ID:: CAD042245001				

US INST CONTROL: A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

A review of the US INST CONTROL list, as provided by EDR, and dated 07/31/2018 has revealed that there is 1 US INST CONTROL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OMEGA CHEMICAL CORPO	***12504 AND 12512 E. W***	***0 - 1/8 (0.000 mi.)***	***0***	***12***
EPA ID:: CAD042245001				

State- and tribal - equivalent NPL

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, has revealed that there are 2 RESPONSE sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MOBIL OIL/JALK FEE	***10607 NORWALK BOULEV***	***SSE 1/2 - 1 (0.598 mi.)***	***75***	***201***
Database: RESPONSE, Date of Government Version: 10/29/2018				
Status: Refer: RWQCB				
Facility Id: 19130098				
BEAUMON TRUST PROPER	***12525 PARK AVENUE***	***ESE 1/2 - 1 (0.886 mi.)***	***83***	***234***
Database: RESPONSE, Date of Government Version: 10/29/2018				
Status: Certified				
Facility Id: 60000159				

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/29/2018 has revealed that there are 21 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SANTA FE SPRINGS WAS Facility Id: 19490017 Status: Refer: RWQCB	***9814 SOUTH ALBUSTIS***	***NW 1/8 - 1/4 (0.216 mi.)***	***L43***	***120***
ATLAS RADIATOR, INCO Facility Id: 19750080 Status: No Further Action	***10110 NORWALK BLVD***	***E 1/4 - 1/2 (0.313 mi.)***	***O57***	***146***
SANTA FE SPRINGS ATH Facility Id: 19790005 Status: Certified / Operation & Maintenance	***PIONEER/JERSEY AVENU***	***NW 1/4 - 1/2 (0.346 mi.)***	***60***	***156***
LAKEVIEW PARK RECREA Facility Id: 60000908 Status: Inactive - Needs Evaluation	***JOSLIN STREET AND JE***	***WSW 1/4 - 1/2 (0.355 mi.)***	***61***	***166***
SHAMROCK TIRE & WHEE Facility Id: 19340459 Status: Refer: Other Agency	***10332 SOUTH NORWALK***	***ESE 1/4 - 1/2 (0.363 mi.)***	***Q63***	***169***
L.A. BY-PRODUCTS - S Facility Id: 19490147 Status: No Further Action	***9615 SOUTH NORWALK B***	***NE 1/4 - 1/2 (0.475 mi.)***	***S69***	***179***
HATHAWAY OIL COMPANY Facility Id: 19290186 Status: Refer: Other Agency	12250 EAST TELEGRAPH	SE 1/4 - 1/2 (0.486 mi.)	71	187
JERSEY AVENUE ELEMEN Facility Id: 19820029 Status: No Further Action	***9400 JERSEY AVENUE***	***NNW 1/2 - 1 (0.502 mi.)***	***73***	***191***
IMPERIAL ANCHOR PALL Facility Id: 19240002 Status: Refer: RWQCB	***12246 PARK AVENUE***	***SE 1/2 - 1 (0.541 mi.)***	***74***	***199***
MOBIL OIL/JALK FEE Facility Id: 19130098 Status: Refer: RWQCB	***10607 NORWALK BOULEV***	***SSE 1/2 - 1 (0.598 mi.)***	***75***	***201***
WHITTIER PLATING CO. Facility Id: 80001584 Status: * Inactive	***11642 E PIKE ST***	***NNE 1/2 - 1 (0.625 mi.)***	***76***	***206***
CONTINENTAL HEAT TRE	***10643 NORWALK***	***SSE 1/2 - 1 (0.660 mi.)***	***77***	***214***

Facility Id: 19990035
Status: Inactive - Action Required

TROJAN BATTERY CO	***12380 E CLARK ST***	***SE 1/2 - 1 (0.682 mi.)***	***78***	***222***
Facility Id: 71002926				
Status: No Action Required				
ALL PURE CHEMICAL CO	***11600 PIKE STREET***	***NNE 1/2 - 1 (0.715 mi.)***	***79***	***224***
Facility Id: 19281186				
Status: Refer: Other Agency				
FINELINE PAINT CORP.	***12200 LOS NIETOS***	***ENE 1/2 - 1 (0.817 mi.)***	***80***	***226***
Facility Id: 19280908				
Status: Refer: Other Agency				
DICE ROAD/LOS NIETOS	***9165 DICE ROAD***	***NE 1/2 - 1 (0.837 mi.)***	***T81***	***227***
Facility Id: 19490148				
Status: No Further Action				
ELECTRONIC CHROME CO	***9132 DICE RD***	***NE 1/2 - 1 (0.859 mi.)***	***T82***	***231***
Facility Id: 71002227				
Status: Refer: Other Agency				
BEAUMON TRUST PROPER	***12525 PARK AVENUE***	***ESE 1/2 - 1 (0.886 mi.)***	***83***	***234***
Facility Id: 60000159				
Status: Certified				
PLATE SHOP THE	***10701 FOREST ST***	***SE 1/2 - 1 (0.902 mi.)***	***84***	***239***
Facility Id: 19340724				
Status: Refer: Other Agency				
PRESSURE VESSEL SERV	12522 LOS NIETOS ROA	ENE 1/2 - 1 (0.978 mi.)	86	250
Facility Id: 71003316				
Status: Refer: Other Agency				
PMC SPECIALTIES GRP	***10051 ROMANDEL AVE***	***E 1/2 - 1 (0.985 mi.)***	***87***	***251***
Facility Id: 71002354				
Facility Id: 60000466				
Status: Refer: Other Agency				
Status: Active				

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SANTA CLARITA SANITA	9814 ALBUTIS AVENUE	WNW 1/8 - 1/4 (0.215 mi.)	L42	119
Database: LOS ANGELES CO. LF, Date of Government Version: 10/15/2018				
Site ID: 2231				
Status: Closed				

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 12 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CITY OF SANTA FE SPR	***11736 TELEGRAPH***	***W 1/8 - 1/4 (0.191 mi.)***	***K38***	***113***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Facility Id: I-10769 Status: Case Closed Global Id: T0603703656 Global ID: T0603703656				
UNOCAL #5435	11651 TELEGRAPH RD	W 1/8 - 1/4 (0.242 mi.)	M46	124
Database: LUST REG 4, Date of Government Version: 09/07/2004 Facility Id: I-06156 Status: Case Closed Global ID: T0603703176				
SANTA FE ENERGY	***11651 TELEGRAPH ROAD***	***W 1/8 - 1/4 (0.242 mi.)***	***M47***	***125***
Database: LUST, Date of Government Version: 12/10/2018 Status: Open - Site Assessment Global Id: T10000006363				
SANTA FE ENERGY, INC	***11651 TELEGRAPH RD***	***W 1/8 - 1/4 (0.242 mi.)***	***M51***	***139***
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0603703176				
PEDCO	9911 NORWALK	ENE 1/4 - 1/2 (0.284 mi.)	N55	144
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T10000001907				
CHEVRON #9-5306	12155 TELEGRAPH RD	SE 1/4 - 1/2 (0.344 mi.)	P58	149
Database: LUST REG 4, Date of Government Version: 09/07/2004 Facility Id: I-01120A Facility Id: I-01120 Status: Case Closed Global ID: T0603702757 Global ID: T0603702756				
CHEVRON #9-5306	***12155 TELEGRAPH RD***	***SE 1/4 - 1/2 (0.344 mi.)***	***P59***	***151***
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0603702757 Global Id: T0603702756				
COPLEY SANTA FE SPRI	***9750 NORWALK BLVD***	***NE 1/4 - 1/2 (0.387 mi.)***	***R64***	***170***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Facility Id: I-00229 Status: Case Closed Global ID: T0603702689				
SANTA FE TRUCK TERMI	***9750 NORWALK***	***NE 1/4 - 1/2 (0.387 mi.)***	***R65***	***173***
Database: LUST, Date of Government Version: 12/10/2018				

Status: Completed - Case Closed
Global Id: T0603702689

HERITAGE CORPORATE C	***10445 NORWALK BLVD S***	***SE 1/4 - 1/2 (0.463 mi.)***	***67***	***176***

Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: I-06587
Status: Case Closed
Global Id: T0603703235
Global ID: T0603703235

Lower Elevation	Address	Direction / Distance	Map ID	Page
PEDRO PETROLEUM	***11916 TELEGRAPH RD E***	***S 0 - 1/8 (0.072 mi.)***	***C17***	***75***

Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: I-21538
Status: Case Closed
Global Id: T0603704479
Global ID: T0603704479

LITTLE LAKE CITY SCH	***10515 PIONEER***	***SSW 1/4 - 1/2 (0.496 mi.)***	***72***	***188***

Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: I-13200
Status: Case Closed
Global Id: T0603704049
Global ID: T0603704049

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 5 CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SOUTHERN CALIFORNIA	SMITH AVE	NNW 1/8 - 1/4 (0.228 mi.)	45	124

Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Completed - Case Closed
Global Id: SLT4305654

STATEFARM PROPERTY	GEARY AVE	ENE 1/4 - 1/2 (0.257 mi.)	N53	142

Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Completed - Case Closed
Global Id: SLT43584582

STATE FARM INSURANCE	***GEARY AVE***	***ENE 1/4 - 1/2 (0.257 mi.)***	***N54***	***142***

Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Completed - Case Closed
Global Id: SLT43332330

UNOCAL - SANTA FE SP	10122 NORWALK	E 1/4 - 1/2 (0.307 mi.)	O56	145

Database: SLIC REG 4, Date of Government Version: 11/17/2004
Database: CPS-SLIC, Date of Government Version: 12/10/2018

Facility Status: Open - Inactive
Facility Status: No further action required
Global Id: SLT43334332

WOHL PROPETY GROUP I — TELEGRAPH RD & NORWA — SE 1/4 - 1/2 (0.409 mi.) — 66 — 175
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Open - Inactive
Global Id: SL0002041J00

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CITY OF SANTA FE SPR Database: UST, Date of Government Version: 12/10/2018 Facility Id: 601087	11736 TELEGRAPH RD	W 1/8 - 1/4 (0.191 mi.)	K39	116
SANTA FE ENERGY Database: UST, Date of Government Version: 12/10/2018	11651 TELEGRAPH RD	W 1/8 - 1/4 (0.242 mi.)	M50	139

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there are 3 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROSE PAVING COMPANY Database: AST, Date of Government Version: 07/06/2016	10200 MATERN PL	ESE 0 - 1/8 (0.101 mi.)	F22	81
SCE - WHITTIER SERVI Database: AST, Date of Government Version: 07/06/2016	***9901 S GEARY AVE***	***ENE 1/8 - 1/4 (0.167 mi.)***	***H27***	***87***
SOUTHERN CALIFORNIA Database: AST, Date of Government Version: 07/06/2016	9901 GEARY	ENE 1/8 - 1/4 (0.167 mi.)	H28	87

State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 10/29/2018 has revealed that there are 2 VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ATLAS RADIATOR, INCO	***10110 NORWALK BLVD***	***E 1/4 - 1/2 (0.313 mi.)***	***O57***	***146***
Status: No Further Action Facility Id: 19750080				
SANTA FE SPRINGS ATH	***PIONEER/JERSEY AVENU***	***NW 1/4 - 1/2 (0.346 mi.)***	***60***	***156***
Status: Certified / Operation & Maintenance Facility Id: 19790005				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there are 3 WMUDS/SWAT sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DARCO USA, INC.	10145 GEARY AVE	ESE 1/8 - 1/4 (0.189 mi.)	I36	112
SANTA FE SPRINGS WAS	***9814 SOUTH ALBUSTIS***	***NW 1/8 - 1/4 (0.216 mi.)***	***L43***	***120***
L.A. BY PRODUCTS-SAN	9615 SOUTH NORWALK B	NE 1/4 - 1/2 (0.484 mi.)	S70	186

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 10 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OMEGA CHEMICAL CORPO	***12504 AND 12512 E. W***	***0 - 1/8 (0.000 mi.)***	***0***	***12***
Status: A Comp Number: 13643				
W T BILLARD INC	10261 MATERN PL	SE 0 - 1/8 (0.080 mi.)	D18	77
Status: A Tank Status: A Comp Number: 10140				
A J VAN BASTELAAR	10035 GEARY AVE	E 0 - 1/8 (0.088 mi.)	F20	79
Status: A Tank Status: A Comp Number: 10306				
PARTS EXPEDITING & D	11704 E WILLAKE ST	WNW 0 - 1/8 (0.101 mi.)	23	81

Status: A Comp Number: 5658				
ANDY PEYKOFF-ROCKY M Status: A Tank Status: A Comp Number: 13751	10260 MATERN PL	SE 0 - 1/8 (0.106 mi.)	D24	82
SO CAL EDISON WHITTI Status: A Tank Status: A Comp Number: 14439	9901 GEARY AVE	ENE 1/8 - 1/4 (0.167 mi.)	H30	93
DARCO INC Status: A Tank Status: A Comp Number: 10372	10135 S GEARY AVE	ESE 1/8 - 1/4 (0.182 mi.)	I32	105
R J M COMPANY Status: A Comp Number: 14360	11919 SMITH DR	NE 1/8 - 1/4 (0.186 mi.)	J35	111
CITY OF SANTA FE SPR Status: A Tank Status: A Comp Number: 10769	***11736 E TELEGRAPH RD***	***W 1/8 - 1/4 (0.191 mi.)***	***K40***	***116***
UNOCAL JACK K MARTIN Status: A Tank Status: A Comp Number: 6156	11651 E TELEGRAPH RD	W 1/8 - 1/4 (0.242 mi.)	M49	137

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 5 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OMEGA CHEMICAL CORPO Facility Id: 00000041598	***12504 AND 12512 E. W***	***0 - 1/8 (0.000 mi.)***	***0***	***12***
SMITH AVENUE Facility Id: 00000004838	***11919 SMITH AVENUE***	***NE 1/8 - 1/4 (0.186 mi.)***	***J34***	***108***
FIRE STATION 4 Facility Id: 00000029453	11736 TELEGRAPH RD	W 1/8 - 1/4 (0.191 mi.)	K37	113
UNION OIL SERVICE ST Facility Id: 00000055504	11651 TELEGRAPH	W 1/8 - 1/4 (0.242 mi.)	M48	136
SERVICE STATION 5435 Facility Id: 00000008019	11651 TELEGRAPH	W 1/8 - 1/4 (0.242 mi.)	M52	141

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CITY OF SANTA FE SPR	***11736 E TELEGRAPH RD***	***W 1/8 - 1/4 (0.191 mi.)***	***K40***	***116***
Facility Id: 19003121				
Status: A				

Other Ascertainable Records

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 12/12/2018 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OMEGA CHEMICAL CORPO	***12504 AND 12512 E. W***	***0 - 1/8 (0.000 mi.)***	***0***	***12***
EPA ID:: CAD042245001				

RAATS: The RCRA Administration Action Tracking System contains records based on enforcement actions issued under RCRA and pertaining to major violators. It includes administrative and civil actions brought by the United States Environmental Protection Agency. The source of this database is the U.S. EPA.

A review of the RAATS list, as provided by EDR, and dated 04/17/1995 has revealed that there is 1 RAATS site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OMEGA CHEMICAL CORPO	***12504 AND 12512 E. W***	***0 - 1/8 (0.000 mi.)***	***0***	***12***
Status: 02				
Facility ID: CAD042245001				

PRP: A listing of verified Potentially Responsible Parties

A review of the PRP list, as provided by EDR, and dated 08/13/2018 has revealed that there is 1 PRP site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OMEGA CHEMICAL CORPO	***12504 AND 12512 E. W***	***0 - 1/8 (0.000 mi.)***	***0***	***12***

EXECUTIVE SUMMARY

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 11/15/2018 has revealed that there are 2 FINDS sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
APRIA HEALTHCARE INC Registry ID:: 110066354466	9930 PIONEER BLVD ST	0 - 1/8 (0.000 mi.)	A4	61
GRAPHIC TECHNOLOGY I Registry ID:: 110002886324	***10010 PIONEER STE 10***	***0 - 1/8 (0.000 mi.)***	***A8***	***63***

ECHO: ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

A review of the ECHO list, as provided by EDR, and dated 09/02/2018 has revealed that there is 1 ECHO site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GRAPHIC TECHNOLOGY I Registry ID: 110002886324	***10010 PIONEER STE 10***	***0 - 1/8 (0.000 mi.)***	***A8***	***63***

EMI: Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies

A review of the EMI list, as provided by EDR, and dated 12/31/2017 has revealed that there is 1 EMI site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OMEGA CHEMICAL CORPO Facility Id: 8107	***12504 AND 12512 E. W***	***0 - 1/8 (0.000 mi.)***	***0***	***12***

HAZNET: The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency. This database begins with calendar year 1993.

A review of the HAZNET list, as provided by EDR, and dated 12/31/2017 has revealed that there are 5 HAZNET sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COLORCOM INC	9930 PIONEER BLVD #1	0 - 1/8 (0.000 mi.)	A3	59

GEPAID: CAL000207176				
CIGNA HLTHCARE OF CA GEPAID: CAL000043845	9930 PINOEER BLVD ST	0 - 1/8 (0.000 mi.)	A6	62
ROLL PROPERTIES INTE GEPAID: CAC002326977	10010 PIONEER BLVD	0 - 1/8 (0.000 mi.)	A7	62
GRAPHIC TECHNOLOGY I GEPAID: CAD983650896	***10010 PIONEER STE 10***	***0 - 1/8 (0.000 mi.)***	***A8***	***63***
ROLL PROPERTIES INTE GEPAID: CAC002568596	9930 PIONEER BLVD #1	0 - 1/8 (0.000 mi.)	A10	67

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 8 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CITY OF SANTA FE SPR Reg Id: I-10769	***11736 TELEGRAPH***	***W 1/8 - 1/4 (0.191 mi.)***	***K38***	***113***
SANTA FE ENERGY, INC Reg Id: I-06156	***11651 TELEGRAPH RD***	***W 1/8 - 1/4 (0.242 mi.)***	***M51***	***139***
CHEVRON #9-5306 Reg Id: I-01120 Reg Id: I-01120A	***12155 TELEGRAPH RD***	***SE 1/4 - 1/2 (0.344 mi.)***	***P59***	***151***
SHAMROCK TIRE & WHEE Reg Id: 19340459	***10332 SOUTH NORWALK***	***ESE 1/4 - 1/2 (0.363 mi.)***	***Q63***	***169***
SANTA FE TRUCK TERMI Reg Id: I-00229	***9750 NORWALK***	***NE 1/4 - 1/2 (0.387 mi.)***	***R65***	***173***
HERITAGE CORPORATE C Reg Id: I-06587	***10445 NORWALK BLVD S***	***SE 1/4 - 1/2 (0.463 mi.)***	***67***	***176***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PEDRO PETROLEUM Reg Id: I-21538	11916 TELEGRAPH	S 0 - 1/8 (0.072 mi.)	C16	74
LITTLE LAKE CITY SCH Reg Id: I-13200	***10515 PIONEER***	***SSW 1/4 - 1/2 (0.496 mi.)***	***72***	***188***

Los Angeles County Industrial Waste and Underground Storage Tank Sites.

A review of the LOS ANGELES CO. HMS list, as provided by EDR, and dated 09/20/2018 has revealed that there are 2 LOS ANGELES CO. HMS sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HARSHAW CHEMICAL CO Facility ID: 004827-I06040	10016 S PIONEER BLVD	0 - 1/8 (0.000 mi.)	A5	61
WHITE LABORATORIES I	10016 S PIONEER BLVD	0 - 1/8 (0.000 mi.)	A9	66

Facility ID: 004827-I05013

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 11/19/2018 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WHITTIER PLATING CO. EPA Id: CAD008495129 Cleanup Status: PROTECTIVE FILER	***11642 E PIKE ST***	***NNE 1/2 - 1 (0.625 mi.)***	***76***	***206***

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 09/19/2018 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ENVIROFORM INDUSTRIE	***9624 JOHN ST***	***ENE 1/2 - 1 (0.909 mi.)***	***85***	***243***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MEPCO OIL INC	10016 PIONEER BLVD	WSW 0 - 1/8 (0.002 mi.)	B11	67

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 6 records.

Site Name	Database(s)
STATEFARM PROPERTY	CPS-SLIC
STATE FARM INSURANCE	CPS-SLIC
SOUTHERN CALIFORNIA EDISON - WHITT	CPS-SLIC
MOBIL - OFRP	CPS-SLIC
UNOCAL - ALEXANDER FEE	CPS-SLIC
WALKER PROPERTIES	CA BOND EXP. PLAN

OVERVIEW MAP - 5552600.2S



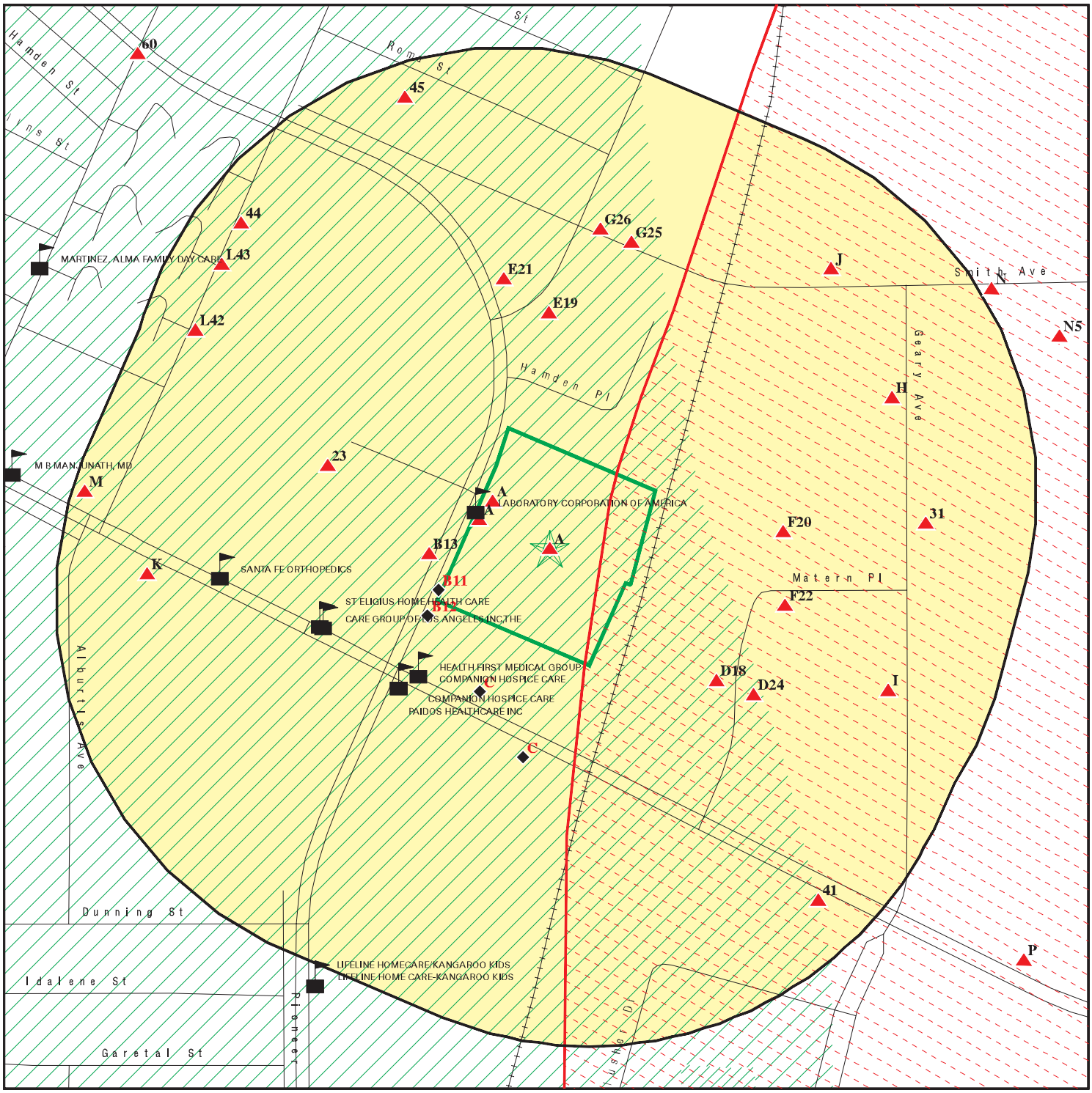
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 9920 Pioneer Blvd	CLIENT: Hazard Management Consulting
ADDRESS: 9920 Pioneer Blvd Santa Fe Springs CA 90670	CONTACT: Troy Taylor
LAT/LONG: 33.946351 / 118.079047	INQUIRY #: 5552600.2s DATE: February 04, 2019 2:57 pm

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DETAIL MAP - 5552600.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 9920 Pioneer Blvd	CLIENT: Hazard Management Consulting
ADDRESS: 9920 Pioneer Blvd Santa Fe Springs CA 90670	CONTACT: Troy Taylor
LAT/LONG: 33.946351 / 118.079047	INQUIRY #: 5552600.2s DATE: February 04, 2019 3:00 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		1	0	0	0	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		1	0	0	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	2	NR	NR	2
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		1	0	0	1	NR	2
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		1	0	0	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250		1	1	NR	NR	NR	2
RCRA-SQG	0.250		7	6	NR	NR	NR	13
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		1	0	0	NR	NR	1
US INST CONTROL	0.500		1	0	0	NR	NR	1
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	2	NR	2
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	1	6	14	NR	21
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	1	0	NR	NR	1
State and tribal leaking storage tank lists								
LUST	0.500		1	4	7	NR	NR	12

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	1	4	NR	NR	5
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	2	NR	NR	NR	2
AST	0.250		1	2	NR	NR	NR	3
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	2	NR	NR	2
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	2	1	NR	NR	3
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
AOCONCERN	1.000		0	0	0	0	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		5	5	NR	NR	NR	10
HIST UST	0.250		1	4	NR	NR	NR	5
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	1	NR	NR	NR	1
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	0	0	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		1	0	0	0	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		1	NR	NR	NR	NR	1
PRP	0.001		1	NR	NR	NR	NR	1
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	1	2	NR	NR	NR	NR	3
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001	1	1	NR	NR	NR	NR	2
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		1	NR	NR	NR	NR	1
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001	1	5	NR	NR	NR	NR	6
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		1	2	5	NR	NR	8
LOS ANGELES CO. HMS	0.001		2	NR	NR	NR	NR	2
HWP	1.000		0	0	0	1	NR	1
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	1	NR	1
LA Co. Site Mitigation	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		4	38	32	27	19	0	120

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 Target Property — **CIGNA HEALTH PLAN OF CA LAB**, **9920 PIONEER BLVD**, **SANTA FE SPRINGS, CA 90670** — **RCRA NonGen / NLR**, **FINDS**, **ECHO** — **1000306836**, **CAD981453855**

Site 1 of 10 in cluster A

Actual: 130 ft.

RCRA NonGen / NLR:

Date form received by agency:	03/24/1986
Facility name:	CIGNA HEALTH PLAN OF CA LAB
Facility address:	9920 PIONEER BLVD SANTA FE SPRINGS, CA 90670
EPA ID:	CAD981453855
Mailing address:	PIONEER BLVD SANTA FE SPRINGS, CA 90670
Contact:	ENVIRONMENTAL MANAGER
Contact address:	9920 PIONEER BLVD SANTA FE SPRINGS, CA 90670
Contact country:	US
Contact telephone:	213-942-1007
Contact email:	Not reported
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MEDICAL LAB MANAGEMENT CORP
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No

CIGNA HEALTH PLAN OF CA LAB (Continued) **1000306836**

On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002712663

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000306836
Registry ID:	110002712663
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002712663

A2 **CIGNA HEALTH PLAN OF CALIFORNIA LAB** **HAZNET** **S113006785**
Target **9920 PIONEER BLVD** **N/A**
Property **SANTA FE SPRINGS, CA 90678**

Site 2 of 10 in cluster A

Actual: **130 ft.**

HAZNET:

envid:	S113006785
Year:	1997
GEPAID:	CAD981453855
Contact:	CIGNA HERALTH PLAN OF CAL
Telephone:	2139421007
Mailing Name:	Not reported
Mailing Address:	9920 PIONEER BLVD
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906703220
Gen County:	Not reported
TSD EPA ID:	CAD000088252
TSD County:	Not reported
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	Transfer Station
Tons:	.3544
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

CIGNA HEALTH PLAN OF CALIFORNIA LAB (Continued) **S113006785**

envid: S113006785
Year: 1996
GEPAID: CAD981453855
Contact: CIGNA HERALTH PLAN OF CAL
Telephone: 2139421007
Mailing Name: Not reported
Mailing Address: 9920 PIONEER BLVD
Mailing City,St,Zip: SANTA FE SPRINGS, CA 906703220
Gen County: Not reported
TSD EPA ID: CAD000088252
TSD County: Not reported
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Transfer Station
Tons: .8340
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113006785
Year: 1995
GEPAID: CAD981453855
Contact: CIGNA HERALTH PLAN OF CAL
Telephone: 2139421007
Mailing Name: Not reported
Mailing Address: 9920 PIONEER BLVD
Mailing City,St,Zip: SANTA FE SPRINGS, CA 906703220
Gen County: Not reported
TSD EPA ID: CAD000088252
TSD County: Not reported
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Transfer Station
Tons: 1.2300
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113006785
Year: 1994
GEPAID: CAD981453855
Contact: CIGNA HERALTH PLAN OF CAL
Telephone: 2139421007
Mailing Name: Not reported
Mailing Address: 9920 PIONEER BLVD
Mailing City,St,Zip: SANTA FE SPRINGS, CA 906703220
Gen County: Not reported
TSD EPA ID: CAT080010101
TSD County: Not reported
Waste Category: Unspecified solvent mixture
Disposal Method: Transfer Station
Tons: .2085
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113006785
Year: 1994
GEPAID: CAD981453855

CIGNA HEALTH PLAN OF CALIFORNIA LAB (Continued) **S113006785**

Contact:	CIGNA HERALTH PLAN OF CAL
Telephone:	2139421007
Mailing Name:	Not reported
Mailing Address:	9920 PIONEER BLVD
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906703220
Gen County:	Not reported
TSD EPA ID:	CAT080010101
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Not reported
Tons:	.2085
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
5 additional CA_HAZNET: record(s) in the EDR Site Report.

NPL Region
< 1/8
1 ft.

OMEGA CHEMICAL CORPORATION
12504 AND 12512 E. WHITTIER BOULEVARD
WHITTIER, CA 90602

NPL 1000232419
SEMS CAD042245001
CORRACTS
RCRA-TSDF
RCRA-LQG
US ENG CONTROLS
US INST CONTROL
SWEEPS UST
HIST UST
ROD
RAATS
PRP
EMI

NPL:

EPA ID:	CAD042245001
Cerclis ID:	903349
EPA Region:	9
Federal:	N
Final Date:	1999-01-19 00:00:00
Site Score:	30.940000000000001
Latitude:	33.969721999999997
Longitude:	-118.042222

Site Details:

Site Name:	OMEGA CHEMICAL CORPORATION
Site Status:	Final
Site Zip:	90602
Site City:	WHITTIER
Site State:	CA
Federal Site:	No
Site County:	LOS ANGELES
EPA Region:	09
Date Proposed:	09/29/98
Date Deleted:	Not reported
Date Finalized:	01/19/99

Substance Details:

NPL Status:	Currently on the Final NPL

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Substance ID: Not reported
Substance: Not reported
CAS #: Not reported
Pathway: Not reported
Scoring: Not reported

NPL Status: Currently on the Final NPL
Substance ID: A003
Substance: ANTIMONY AND COMPOUNDS
CAS #: Not reported
Pathway: GROUND WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: A005
Substance: ARSENIC AND COMPOUNDS
CAS #: Not reported
Pathway: GROUND WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: A006
Substance: BARIUM AND COMPOUNDS
CAS #: Not reported
Pathway: GROUND WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: A020
Substance: CHROMIUM AND COMPOUNDS
CAS #: Not reported
Pathway: GROUND WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: A038
Substance: NICKEL AND COMPOUNDS
CAS #: Not reported
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: A046
Substance: POLYCHLORINATED BIPHENYLS
CAS #: 1336-36-3
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: A091
Substance: 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE
CAS #: 76-13-1
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: C177

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Substance: COBALT AND COMPOUNDS
CAS #: Not reported
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C178
Substance: COPPER AND COMPOUNDS
CAS #: Not reported
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C247
Substance: ZINC AND COMPOUNDS
CAS #: Not reported
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C460
Substance: MERCURY
CAS #: 7439-97-6
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: D008
Substance: LEAD (PB)
CAS #: 7439-92-1
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U078
Substance: DICHLOROETHENE, 1,1-
CAS #: 75-35-4
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: U080
Substance: METHYLENE CHLORIDE
CAS #: 75-09-2
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U121
Substance: TRICHLOROFLUOROMETHANE
CAS #: 75-69-4
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U210
Substance: TETRACHLOROETHENE

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

CAS #: 127-18-4
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: U226
Substance: TRICHLOROETHANE, 1,1,1-
CAS #: 71-55-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U228
Substance: TRICHLOROETHYLENE (TCE)
CAS #: 79-01-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

Summary Details:

Conditions at Proposal September 29, 1998): The Omega Chemical Corporation Omega) site is a former ha ardous waste treatment and storage facility that operated from 1976 to 1991 on a 40,000-square foot property in Whittier, Los Angeles County,California. Omega conducted solvent recovery using an on-site fractionation and distillation process and operated as a storage and transfer facility for various ha ardous waste classifications. Ha ardous wastes stored on site contained mainly chlorinated and aromatic solvents. In June 1995, before removal activities, the Omega site consisted of thousands of drums of ha ardous waste, two roll-off bins of hardened resin material, hundreds of empty but contaminated drums, numerous cylinders with capacities ranging from 15 to 20,000 pounds, and various other smaller containers of waste and/or ha ardous waste. Inside the on-site warehouse there were hundreds more 55-gallon drums that Omega claimed to be product and assorted smaller containers of ha ardous material. Since 1991, the California Department of Toxic Substances Control DTSC) and EPA s Ha ardous Waste Management Division have been actively trying to get the owner/operator to remove the wastes and clean up the site.In March 1995, the site owner/operator plead guilty to two felony counts of illegal storage and disposal of ha ardous wastes. On May 9, 1995, EPA issued CERCLA Administrative Order No. 95-15 to the owner of Omega and to generators of ha ardous waste that had shipped major quantities of material to Omega. During 1995, EPA s Superfund Emergency Response Office oversaw Phase I removal activities, during which contractors to a responsible party group removed all ha ardous materials and wastes from the site. Phase II site activities began in November 1995 and included collection and analyses of subsurface soil and ground water at the site. Analytical results indicated that subsurface soil samples were mainly contaminated with tetrachloroethene PCE), with lesser amounts of trichloroethene, dichloroethene and other chlorinated hydrocarbons, Freons and metals. PCE contamination was detected in soil at concentrations ranging from 1.9 milligrams per kilogram mg/kg) to 510 mg/kg. Ground water samples collected at the site contained PCE up to 86,000 micrograms per liter as well as significant concentrations of other chlorinated hydrocarbons and Freons. Phase II activities documented the presence of PCE in shallow ground water ina plume that extends almost 1 mile downgradient of the site. Although the ground water samples were collected in the shallow regional aquifer of the Lakewood Formation and most of the municipal drinking water wells draw water from the San Pedro Formation, California Department of Water Resources hydrogeologic cross-sections of the Lakewood and Upper San Pedro Formations indicate that aquifers are interconnected within 2 miles of the

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

site. Eight water purveyors draw ground water from 35 wells within 4 miles of the site to supply drinking water to approximately 284,270 people. The nearest well to the site is 1.3 miles to the west. This and nearly two-thirds of the wells within 4 miles draw water from the Lakewood and Upper San Pedro formation aquifers. The San Gabriel River is the nearest surface water body at approximately 2.5 miles from the site. The site is located in a mixed industrial and residential community, with residences located across Whittier Boulevard tothe northeast. Status January 1999): EPA is considering various alternatives for the site. The description of the site release) is based on information available at the time the site was scored. The description may change as additional information is gathered on the sources and extent of contamination. See 56 FR 5600, February 11, 1991, or subsequent FR notices.

Site Status Details:

NPL Status:	Final
Proposed Date:	09/29/1998
Final Date:	01/19/1999
Deleted Date:	Not reported

Narratives Details:

NPL Name:	OMEGA CHEMICAL CORPORATION
City:	WHITTIER
State:	CA

SEMS:

Site ID:	0903349
EPA ID:	CAD042245001
Cong District:	34,38,39
FIPS Code:	06037
Latitude:	33.969722
Longitude:	-118.042222
FF:	N
NPL:	Currently on the Final NPL
Non NPL Status:	Not reported

SEMS Detail:

Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	02
Action Code:	RI
Action Name:	RI
SEQ:	1
Start Date:	2000-04-11 04:00:00
Finish Date:	8/30/2010 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

NPL:	F
FF:	N
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	2011-09-20 04:00:00
Finish Date:	9/20/2011 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1990-06-01 04:00:00
Finish Date:	6/1/1990 4:00:00 AM
Qual:	D
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	01
Action Code:	TA
Action Name:	TECH ASSIST
SEQ:	2
Start Date:	2015-09-30 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	2
Start Date:	1995-05-10 04:00:00
Finish Date:	5/10/1995 4:00:00 AM
Qual:	H
Current Action Lead:	EPA Perf
Region:	09

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	00
Action Code:	HR
Action Name:	HAZRANK
SEQ:	1
Start Date:	1999-01-19 05:00:00
Finish Date:	1/19/1999 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	02
Action Code:	RI
Action Name:	RI
SEQ:	2
Start Date:	2011-09-21 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	00
Action Code:	CR
Action Name:	CI
SEQ:	2
Start Date:	2011-12-08 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1989-07-12 04:00:00
Finish Date:	7/12/1989 4:00:00 AM
Qual:	Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Current Action Lead: EPA Perf

Region: 09
Site ID: 0903349
EPA ID: CAD042245001
Site Name: OMEGA CHEMICAL CORPORATION
NPL: F
FF: N
OU: 00
Action Code: MA
Action Name: ST COOP
SEQ: 2
Start Date: 2010-10-07 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0903349
EPA ID: CAD042245001
Site Name: OMEGA CHEMICAL CORPORATION
NPL: F
FF: N
OU: 00
Action Code: MA
Action Name: ST COOP
SEQ: 1
Start Date: 2010-10-07 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0903349
EPA ID: CAD042245001
Site Name: OMEGA CHEMICAL CORPORATION
NPL: F
FF: N
OU: 00
Action Code: AR
Action Name: ADMIN REC
SEQ: 1
Start Date: 1995-06-30 04:00:00
Finish Date: 6/30/1995 4:00:00 AM
Qual: V
Current Action Lead: EPA Perf

Region: 09
Site ID: 0903349
EPA ID: CAD042245001
Site Name: OMEGA CHEMICAL CORPORATION
NPL: F
FF: N
OU: 00
Action Code: AR
Action Name: ADMIN REC
SEQ: 2

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Start Date: 2000-07-24 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0903349
EPA ID: CAD042245001
Site Name: OMEGA CHEMICAL CORPORATION
NPL: F
FF: N
OU: 02
Action Code: FS
Action Name: FS
SEQ: 1
Start Date: 2006-06-14 04:00:00
Finish Date: 9/20/2011 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0903349
EPA ID: CAD042245001
Site Name: OMEGA CHEMICAL CORPORATION
NPL: F
FF: N
OU: 00
Action Code: CR
Action Name: CI
SEQ: 1
Start Date: 2000-12-19 05:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0903349
EPA ID: CAD042245001
Site Name: OMEGA CHEMICAL CORPORATION
NPL: F
FF: N
OU: 01
Action Code: RO
Action Name: ROD
SEQ: 2
Start Date: 2008-09-30 04:00:00
Finish Date: 9/30/2008 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0903349
EPA ID: CAD042245001
Site Name: OMEGA CHEMICAL CORPORATION
NPL: F
FF: N
OU: 00

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1999-01-19 05:00:00
Finish Date:	1/19/1999 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	00
Action Code:	NP
Action Name:	PROPOSED
SEQ:	1
Start Date:	1998-09-29 04:00:00
Finish Date:	9/29/1998 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	00
Action Code:	BB
Action Name:	PRP RV
SEQ:	1
Start Date:	1995-06-27 04:00:00
Finish Date:	9/24/2001 4:00:00 AM
Qual:	S
Current Action Lead:	EPA Ovrsght
Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	03
Action Code:	BB
Action Name:	PRP RV
SEQ:	4
Start Date:	2009-12-15 05:00:00
Finish Date:	Not reported
Qual:	S
Current Action Lead:	EPA Ovrsght
Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

NPL:	F
FF:	N
OU:	01
Action Code:	BB
Action Name:	PRP RV
SEQ:	2
Start Date:	2006-07-10 04:00:00
Finish Date:	Not reported
Qual:	S
Current Action Lead:	EPA Ovrsght
Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	01
Action Code:	BF
Action Name:	PRP RA
SEQ:	2
Start Date:	2013-10-30 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Ovrsght
Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	03
Action Code:	BB
Action Name:	PRP RV
SEQ:	3
Start Date:	2007-03-26 04:00:00
Finish Date:	4/4/2007 4:00:00 AM
Qual:	C
Current Action Lead:	EPA Ovrsght
Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	01
Action Code:	BE
Action Name:	PRP RD
SEQ:	2
Start Date:	2010-05-14 05:00:00
Finish Date:	10/30/2013 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Ovrsght
Region:	09

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	02
Action Code:	BE
Action Name:	PRP RD
SEQ:	1
Start Date:	2017-03-31 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

Region:	09
Site ID:	0903349
EPA ID:	CAD042245001
Site Name:	OMEGA CHEMICAL CORPORATION
NPL:	F
FF:	N
OU:	01
Action Code:	EE
Action Name:	EE/CA
SEQ:	1
Start Date:	2002-09-30 04:00:00
Finish Date:	9/28/2005 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Ovrsght

CORRACTS:

EPA ID:	CAD042245001
EPA Region:	9
Area Name:	DRUM STORAGE AREAS
Actual Date:	Not reported
Action:	CA100DC - RFI Imposition, Focused data collection required for stabilization evaluation
NAICS Code(s):	56291 Remediation Services
Original schedule date:	19911209
Schedule end date:	Not reported

RCRA-TSDF:

Date form received by agency:	02/22/2010
Facility name:	OMEGA CHEMICAL SITE PRP ORGANIZED GROUP
Facility address:	12504 - 12512 EAST WHITTIER BL VD WHITTIER, CA 90602
EPA ID:	CAD042245001
Mailing address:	SCOTT STREET, STE. 101 SAN DIEGO, CA 92106
Contact:	EDWARD MODIANO
Contact address:	SCOTT STREET, STE. 101 SAN DIEGO, CA 92106
Contact country:	US
Contact telephone:	619-546-8377

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Contact email:	EDM@DEMAXIMIS.COM
EPA Region:	09
Land type:	Private
Classification:	TSDF
Description:	Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	OMEGA CHEMICAL SITE PRP ORGANIZED GROUP
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1992
Owner/Op end date:	Not reported

Owner/operator name:	OMEGA CHEMICAL SITE PRP OPERATING GROUP
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	05/09/1995
Owner/Op end date:	Not reported

Owner/operator name:	VAN OWEN HOLDINGS
Owner/operator address:	SOUTH SANTA MONICA BLVD. BEVERLY HILLS, CA 90212
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Owner/Op start date: 01/01/2003
Owner/Op end date: Not reported

Owner/operator name: OMEGA CHEMICAL COMPANY
Owner/operator address: 12504 & 12514 E. WHITTIER BLVD
WHITTIER, CA 90602
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/23/1982
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D029
. Waste name: 1,1-DICHLOROETHYLENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

Historical Generators:
Date form received by agency: 02/20/2008
Site name: OMEGA CHEMICAL SITE PRP ORGANIZED GROUP
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D029
. Waste name: 1,1-DICHLOROETHYLENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

Date form received by agency: 06/22/2004
Site name: OMEGA CHEMICAL SITE PRP ORGANIZED GROUP
Classification: Small Quantity Generator

Date form received by agency: 06/22/2004
Site name: OMEGA CHEMICAL SITE PRP ORGANIZED GROUP
Classification: Large Quantity Generator

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D029
. Waste name: 1,1-DICHLOROETHYLENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 09/01/1996
Site name: OMEGA CHEMICAL SITE PRP ORG GP

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Classification: Small Quantity Generator

Date form received by agency: 07/06/1995
Site name: OMEGA CHEMICAL SITE PRP ORG GP
Classification: Large Quantity Generator

Date form received by agency: 03/05/1990
Site name: OMEGA RECOVERY SERVICE
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 06/01/1990
Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 06/01/1990
Event: PA OR CERCLA INSPECTION

Event date: 06/01/1990
Event: LEAD AGENCY DETERMINATION

Event date: 07/18/1991
Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 10/17/1991
Event: 3008(H) ENFORCMT INTERIM STATUS

Event date: 12/01/1991
Event: RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL

Event date: 04/07/1995
Event: REFERRED TO A NON-RCRA AUTHORITY-REFERRED TO CERCLA

Event date: Not reported
Event: RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL

Facility Has Received Notices of Violations:
Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 06/11/1996
Date achieved compliance: 01/01/1997
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 10/25/1994
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 10/25/1994
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 01/20/1993
Date achieved compliance: 10/25/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - FEA
Area of violation: Formal Enforcement Agreement or Order
Date violation determined: 01/20/1993
Date achieved compliance: 10/25/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 12/09/1992
Date achieved compliance: 02/02/1993
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/21/1991
Date achieved compliance: 01/01/1992
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/03/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 05/14/1991
Date achieved compliance: 10/13/1992
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 06/18/1990
Date achieved compliance: 05/14/1991
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 06/18/1990
Date achieved compliance: 05/14/1991
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 06/18/1990
Date achieved compliance: 05/14/1991
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 06/18/1990
Date achieved compliance: 10/13/1992
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 05/25/1990
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 08/28/1989
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 12/12/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 08/21/1989
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 08/21/1989
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 08/21/1989
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/05/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 08/21/1989
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/05/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 08/21/1989
Date achieved compliance: 06/18/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/05/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 08/21/1989
Date achieved compliance: 06/18/1990
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 12/04/1987
Date achieved compliance: 01/25/1996
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 02/08/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 12/04/1987
Date achieved compliance: 01/25/1996
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 02/08/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 12/04/1987
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/15/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 12/04/1987
Date achieved compliance: 01/25/1996
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 02/08/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/30/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/18/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/18/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/18/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/30/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/30/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 06/10/1996
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 01/01/1997
Evaluation lead agency: State

Evaluation date: 01/25/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/25/1995
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/25/1994
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/25/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/25/1995

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Evaluation lead agency: State

Evaluation date: 10/25/1994
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/09/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 01/20/1993
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/09/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/02/1993
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 10/13/1992
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: TSD - General
Date achieved compliance: 10/25/1994
Evaluation lead agency: State

Evaluation date: 10/13/1992
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Formal Enforcement Agreement or Order
Date achieved compliance: 10/25/1994
Evaluation lead agency: State

Evaluation date: 11/21/1991
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 01/01/1992
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 05/14/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 10/13/1992
Evaluation lead agency: State

Evaluation date: 06/18/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 05/14/1991
Evaluation lead agency: State

Evaluation date: 06/18/1990

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 05/14/1991
Evaluation lead agency: State

Evaluation date: 06/18/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 10/13/1992
Evaluation lead agency: State

Evaluation date: 05/25/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/25/1995
Evaluation lead agency: State

Evaluation date: 08/28/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/25/1995
Evaluation lead agency: State

Evaluation date: 08/21/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 06/18/1990
Evaluation lead agency: State

Evaluation date: 08/21/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 03/25/1995
Evaluation lead agency: State

Evaluation date: 08/21/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/25/1995
Evaluation lead agency: State

Evaluation date: 12/04/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 01/25/1996
Evaluation lead agency: EPA

Evaluation date: 12/04/1987
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/25/1995
Evaluation lead agency: State

Evaluation date: 12/04/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 01/25/1996

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Evaluation lead agency: EPA

Evaluation date: 11/18/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 08/18/1989
Evaluation lead agency: State

Evaluation date: 11/18/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 08/18/1989
Evaluation lead agency: State

Evaluation date: 11/18/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/18/1989
Evaluation lead agency: State

RCRA-LQG:
Date form received by agency: 02/22/2010
Facility name: OMEGA CHEMICAL SITE PRP ORGANIZED GROUP
Facility address: 12504 - 12512 EAST WHITTIER BL
VD
WHITTIER, CA 90602
EPA ID: CAD042245001
Mailing address: SCOTT STREET, STE. 101
SAN DIEGO, CA 92106
Contact: EDWARD MODIANO
Contact address: SCOTT STREET, STE. 101
SAN DIEGO, CA 92106
Contact country: US
Contact telephone: 619-546-8377
Contact email: EDM@DEMAXIMIS.COM
EPA Region: 09
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: OMEGA CHEMICAL SITE PRP ORGANIZED GROUP
Owner/operator address: Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1992
Owner/Op end date: Not reported

Owner/operator name: OMEGA CHEMICAL SITE PRP OPERATING GROUP
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: 05/09/1995
Owner/Op end date: Not reported

Owner/operator name: VAN OWEN HOLDINGS
Owner/operator address: SOUTH SANTA MONICA BLVD.
BEVERLY HILLS, CA 90212
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2003
Owner/Op end date: Not reported

Owner/operator name: OMEGA CHEMICAL COMPANY
Owner/operator address: 12504 & 12514 E. WHITTIER BLVD
WHITTIER, CA 90602
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/23/1982
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D029
. Waste name: 1,1-DICHLOROETHYLENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

Historical Generators:
Date form received by agency: 02/20/2008
Site name: OMEGA CHEMICAL SITE PRP ORGANIZED GROUP
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D029
. Waste name: 1,1-DICHLOROETHYLENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Date form received by agency: 06/22/2004
Site name: OMEGA CHEMICAL SITE PRP ORGANIZED GROUP
Classification: Small Quantity Generator

Date form received by agency: 06/22/2004
Site name: OMEGA CHEMICAL SITE PRP ORGANIZED GROUP
Classification: Large Quantity Generator

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D029
. Waste name: 1,1-DICHLOROETHYLENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 09/01/1996
Site name: OMEGA CHEMICAL SITE PRP ORG GP
Classification: Small Quantity Generator

Date form received by agency: 07/06/1995
Site name: OMEGA CHEMICAL SITE PRP ORG GP
Classification: Large Quantity Generator

Date form received by agency: 03/05/1990
Site name: OMEGA RECOVERY SERVICE
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 06/01/1990
Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 06/01/1990
Event: PA OR CERCLA INSPECTION

Event date: 06/01/1990
Event: LEAD AGENCY DETERMINATION

Event date: 07/18/1991
Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 10/17/1991

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Event: 3008(H) ENFORCMT INTERIM STATUS

Event date: 12/01/1991
Event: RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL

Event date: 04/07/1995
Event: REFERRED TO A NON-RCRA AUTHORITY-REFERRED TO CERCLA

Event date: Not reported
Event: RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL

Facility Has Received Notices of Violations:
Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 06/11/1996
Date achieved compliance: 01/01/1997
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 10/25/1994
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 10/25/1994
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 01/20/1993

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Date achieved compliance: 10/25/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - FEA
Area of violation: Formal Enforcement Agreement or Order
Date violation determined: 01/20/1993
Date achieved compliance: 10/25/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 12/09/1992
Date achieved compliance: 02/02/1993
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/21/1991
Date achieved compliance: 01/01/1992
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/03/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 05/14/1991
Date achieved compliance: 10/13/1992

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 06/18/1990
Date achieved compliance: 05/14/1991
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 06/18/1990
Date achieved compliance: 05/14/1991
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 06/18/1990
Date achieved compliance: 05/14/1991
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 06/18/1990
Date achieved compliance: 10/13/1992
Violation lead agency: State

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 05/25/1990
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 08/28/1989
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 12/12/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 08/21/1989
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 08/21/1989
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 08/21/1989
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/05/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 08/21/1989
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/05/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 08/21/1989
Date achieved compliance: 06/18/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/05/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 08/21/1989
Date achieved compliance: 06/18/1990
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 12/04/1987
Date achieved compliance: 01/25/1996
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 02/08/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 12/04/1987
Date achieved compliance: 01/25/1996
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 02/08/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 12/04/1987
Date achieved compliance: 03/25/1995
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/15/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 12/04/1987
Date achieved compliance: 01/25/1996
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 02/08/1988
Enf. disposition status: Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/30/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/18/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/18/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/18/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/30/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/18/1987
Date achieved compliance: 08/18/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/30/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 06/10/1996
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 01/01/1997
Evaluation lead agency: State

Evaluation date: 01/25/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/25/1995
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/25/1994
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/25/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/25/1995
Evaluation lead agency: State

Evaluation date: 10/25/1994
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/09/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 01/20/1993
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/09/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/02/1993

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Evaluation lead agency: State Contractor/Grantee

Evaluation date: 10/13/1992
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: TSD - General
Date achieved compliance: 10/25/1994
Evaluation lead agency: State

Evaluation date: 10/13/1992
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Formal Enforcement Agreement or Order
Date achieved compliance: 10/25/1994
Evaluation lead agency: State

Evaluation date: 11/21/1991
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 01/01/1992
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 05/14/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 10/13/1992
Evaluation lead agency: State

Evaluation date: 06/18/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 05/14/1991
Evaluation lead agency: State

Evaluation date: 06/18/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 05/14/1991
Evaluation lead agency: State

Evaluation date: 06/18/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 10/13/1992
Evaluation lead agency: State

Evaluation date: 05/25/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/25/1995
Evaluation lead agency: State

Evaluation date: 08/28/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/25/1995
Evaluation lead agency: State

Evaluation date: 08/21/1989

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 06/18/1990
Evaluation lead agency: State

Evaluation date: 08/21/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 03/25/1995
Evaluation lead agency: State

Evaluation date: 08/21/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/25/1995
Evaluation lead agency: State

Evaluation date: 12/04/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 01/25/1996
Evaluation lead agency: EPA

Evaluation date: 12/04/1987
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/25/1995
Evaluation lead agency: State

Evaluation date: 12/04/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 01/25/1996
Evaluation lead agency: EPA

Evaluation date: 11/18/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 08/18/1989
Evaluation lead agency: State

Evaluation date: 11/18/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 08/18/1989
Evaluation lead agency: State

Evaluation date: 11/18/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/18/1989
Evaluation lead agency: State

US ENG CONTROLS:
EPA ID: CAD042245001
Site ID: 0903349
Name: OMEGA CHEMICAL CORPORATION
Address: 12504 AND 12512 E. WHITTIER BOULEVARD

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

WHITTIER, CA 90602
EPA Region: 09
County: LOS ANGELES
Event Code: Not reported
Actual Date: 06/30/2011
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/20/2011
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Chemical Reduction/Oxidation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/20/2011
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/20/2011
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/20/2011
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Filtration
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/20/2011
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Liquid Phase Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/20/2011
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/20/2011
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Precipitation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/20/2011
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Reinjection
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/20/2011
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Reuse as Drinking Water
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/20/2011
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: UV Oxidation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2008
Operable Unit: 01
Contaminated Media : Soil

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Engineering Control: Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2008
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Dewatering
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2008
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Hot Air Injection
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2008
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Multi-phase extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2008
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Residuals Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2008
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Soil Vapor Extraction (in-situ)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

US INST CONTROL:

EPA ID:	CAD042245001
Site ID:	0903349
Name:	OMEGA CHEMICAL CORPORATION
Action Name:	RECORD OF DECISION
Address:	12504 AND 12512 E. WHITTIER BOULEVARD
	WHITTIER, CA 90602
EPA Region:	09
County:	LOS ANGELES
Event Code:	Not reported
Inst. Control:	Notice in Newspaper
Actual Date:	06/30/2011
Complet. Date:	09/20/2011
Operable Unit:	02
Contaminated Media :	Groundwater
Contact Name :	Not reported
Contact Phone and Ext :	Not reported
Event Code Description:	Not reported

EPA ID:	CAD042245001
Site ID:	0903349
Name:	OMEGA CHEMICAL CORPORATION
Action Name:	RECORD OF DECISION
Address:	12504 AND 12512 E. WHITTIER BOULEVARD
	WHITTIER, CA 90602
EPA Region:	09
County:	LOS ANGELES
Event Code:	Not reported
Inst. Control:	Public meetings
Actual Date:	06/30/2011
Complet. Date:	09/20/2011
Operable Unit:	02
Contaminated Media :	Groundwater
Contact Name :	Not reported
Contact Phone and Ext :	Not reported
Event Code Description:	Not reported

EPA ID:	CAD042245001
Site ID:	0903349
Name:	OMEGA CHEMICAL CORPORATION
Action Name:	RECORD OF DECISION
Address:	12504 AND 12512 E. WHITTIER BOULEVARD
	WHITTIER, CA 90602
EPA Region:	09
County:	LOS ANGELES
Event Code:	Not reported
Inst. Control:	Building, demolition, or excavation regulation
Actual Date:	09/30/2008
Complet. Date:	09/30/2008
Operable Unit:	01
Contaminated Media :	Soil
Contact Name :	Not reported
Contact Phone and Ext :	Not reported
Event Code Description:	Not reported

EPA ID:	CAD042245001
Site ID:	0903349

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

Name: OMEGA CHEMICAL CORPORATION
Action Name: RECORD OF DECISION
Address: 12504 AND 12512 E. WHITTIER BOULEVARD
WHITTIER, CA 90602
EPA Region: 09
County: LOS ANGELES
Event Code: Not reported
Inst. Control: Covenant
Actual Date: 09/30/2008
Complet. Date: 09/30/2008
Operable Unit: 01
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

SWEEPS UST:
Status: Active
Comp Number: 13643
Number: 9
Board Of Equalization: Not reported
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000041598
Facility Type: Other
Other Type: RECYCLING
Contact Name: DENNIS O'MEARA
Telephone: 2136980991
Owner Name: FRED R. RIPPY
Owner Address: 12471 E. WASHINGTON BLVD.
Owner City,St,Zip: WHITTIER, CA 90602
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

PRP:

PRP Name:

AAD DISTRIBUTION & DRY CLEANING
ABEX AEROSPACE DIVISION
ABEX AEROSPACE DIVISION
ABEX AEROSPACE DIVISION
ACC CASTING COMPANY
ADVANCED CARDIOVASCULAR SYSTEMS, INC.
AEROSPACE CORPORATION
AIR CONDITIONING CO, INC
AIR PRODUCTS AND CHEMICALS, INC.
AIR PRODUCTS AND CHEMICALS, INC.
AIR PRODUCTS AND CHEMICALS, INC.
ALCOA ELECTRONIC PACKAGING, INC.
ALCOA ELECTRONIC PACKAGING, INC.
ALCOA INC.
ALCOA INC.
ALL-STAR PRINT, INC.
ALLAN HANCOCK COLLEGE
ALLEN FOAM CORPORATION
ALLEN L. BENDER, INC.
ALLERGAN, INC.
ALLIED SIGNAL INC N/K/A HONEYWELL INTERNATIONAL INC.
ALLIED SIGNAL INC N/K/A HONEYWELL INTERNATIONAL INC.
ALLIED-SIGNAL, INC.
ALPHA THERAPUETIC
ALPHA THERAPUETIC
ALPHA THERAPUETIC
ALPHA THERAPUETIC
ALPS ELECTRIC (NORTH AMERICA), INC.
AMADA MFG AMERICA INC.
AMCAST AEROSPACE
AMCAST INDUSTRIAL CORPORATION
ANJA ENGINEERING CORPORATION
ANJA ENGINEERING CORPORATION
ANJA ENGINEERING CORPORATION
ANZCO (FORMERLY ANZCO CO.)
ANZON CO
APPLIED AIR ENGINEERING CORPORATION
APPLIED AIR ENGINEERING CORPORATION
APPLIED AIR ENGINEERING CORPORATION
APPLIED MAGNETICS CORPORATION
APPLIED MICRO CIRCUITS CORPORATION
APPLIED MICRO CIRCUITS CORPORATION
APPLIED MICRO CIRCUITS CORPORATION
APPLIED MICRO CIRCUITS CORPORATION
APPROPRIATE TECHNOLOGIES II, INC.
APPROPRIATE TECHNOLOGIES II, INC.
APPROPRIATE TECHNOLOGIES II, INC.
ARISTECH CHEMICAL CORPORATION
ARLON, INC. ADHESIVES/FILM DIVISION
ARLON, INC. ADHESIVES/FILM DIVISION
ARLON, INC. ADHESIVES/FILM DIVISION
ARLON, INC. ADHESIVES/FILM DIVISION

OMEGA CHEMICAL CORPORATION (Continued) **1000232419**

ARMOR ALL PRODUCTS CORPORATION
ARMOR ALL PRODUCTS CORPORATION
ARNOLD CONSTRUCTION CO.
ARROW ELECTRONICS, INC.
ARROWHEAD BRASS PRODUCTS, INC.
ARTESIA MANUFACTURING COMPANY
ARWOOD
ASHLAND CHEMICAL COMPANY

Click this hyperlink while viewing on your computer to access
739 additional PRP: record(s) in the EDR Site Report.

EMI:

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	8107
Air District Name:	SC
SIC Code:	2842
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

A3 **COLORCOM INC** **HAZNET** **S113105387**
9930 PIONEER BLVD #101 **N/A**
< 1/8 **SANTA FE SPRINGS, CA 90670**
1 ft.

Site 3 of 10 in cluster A

Relative: Higher
Actual: 131 ft.

HAZNET:

envid:	S113105387
Year:	2009
GEPAID:	CAL000207176
Contact:	BRANDON LEE
Telephone:	3232464640
Mailing Name:	Not reported
Mailing Address:	2437 S EASTERN AVE
Mailing City,St,Zip:	COMMERCE, CA 900401414
Gen County:	Not reported
TSD EPA ID:	CAD008252405
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.396
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113105387
Year:	2009

COLORCOM INC (Continued) **S113105387**

GEPAID: CAL000207176
Contact: BRANDON LEE
Telephone: 3232464640
Mailing Name: Not reported
Mailing Address: 2437 S EASTERN AVE
Mailing City,St,Zip: COMMERCE, CA 900401414
Gen County: Not reported
TSD EPA ID: CAD008252405
TSD County: Not reported
Waste Category: Unspecified solvent mixture
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.396
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113105387
Year: 2008
GEPAID: CAL000207176
Contact: CINDY CHOI
Telephone: 3232464640
Mailing Name: Not reported
Mailing Address: 2437 S EASTERN AVE
Mailing City,St,Zip: COMMERCE, CA 900401414
Gen County: Not reported
TSD EPA ID: CAD008252405
TSD County: Not reported
Waste Category: Unspecified solvent mixture
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.234
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113105387
Year: 2008
GEPAID: CAL000207176
Contact: CINDY CHOI
Telephone: 3232464640
Mailing Name: Not reported
Mailing Address: 2437 S EASTERN AVE
Mailing City,St,Zip: COMMERCE, CA 900401414
Gen County: Not reported
TSD EPA ID: CAD008252405
TSD County: Not reported
Waste Category: Unspecified solvent mixture
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.234
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113105387
Year: 2007
GEPAID: CAL000207176
Contact: CINDY CHOI
Telephone: 3232464640

COLORCOM INC (Continued) **S113105387**

Mailing Name: Not reported
Mailing Address: 2437 S EASTERN AVE
Mailing City,St,Zip: COMMERCE, CA 900401414
Gen County: Not reported
TSD EPA ID: CAD008252405
TSD County: Not reported
Waste Category: Unspecified solvent mixture
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.39
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
19 additional CA_HAZNET: record(s) in the EDR Site Report.

A4 **APRIA HEALTHCARE INC** **FINDS** **1023340028**
9930 PIONEER BLVD STE 102 **N/A**
< 1/8 **SANTA FE SPRINGS, CA 90670**
1 ft.

Site 4 of 10 in cluster A

Relative: Higher
Actual: 131 ft.

FINDS:

Registry ID: 110066354466

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access
additional FINDS: detail in the EDR Site Report.

A5 **HARSHAW CHEMICAL CO** **LOS ANGELES CO. HMS** **U003060960**
10016 S PIONEER BLVD **N/A**
< 1/8 **SANTA FE SPRINGS, CA 90670**
1 ft.

Site 5 of 10 in cluster A

Relative: Higher
Actual: 131 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: I
Facility Id: 004827-I06040
Facility Type: 00
Facility Status: Closed
Area: 1H
Permit Number: 000002967
Permit Status: Closed

A6 **CIGNA HLTHCARE OF CALIF/SO CAL** **HAZNET** **S113039202**
9930 PINOEER BLVD STE 102 **N/A**
< 1/8 **SANTA FE SPRINGS, CA 90670**
1 ft.

Site 6 of 10 in cluster A

Relative: HAZNET:
Higher

Actual:
131 ft.

envid:	S113039202
Year:	1995
GEPAID:	CAL000043845
Contact:	CIGNA HLTHCARE OF CALIF SO CAL
Telephone:	8184453000
Mailing Name:	Not reported
Mailing Address:	450 E HUNTINGTON DR
Mailing City,St,Zip:	ARCADIA, CA 910063748
Gen County:	Not reported
TSD EPA ID:	FLD980711071
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Treatment, Incineration
Tons:	.0375
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113039202
Year:	1993
GEPAID:	CAL000043845
Contact:	CIGNA HLTHCARE OF CALIF SO CAL
Telephone:	8184453000
Mailing Name:	Not reported
Mailing Address:	450 E HUNTINGTON DR
Mailing City,St,Zip:	ARCADIA, CA 910063748
Gen County:	Not reported
TSD EPA ID:	CAD050806850
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Recycler
Tons:	0.20849999999
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

A7 **ROLL PROPERTIES INTERNATIONAL ASSOCS III** **HAZNET** **S112912570**
10010 PIONEER BLVD **N/A**
< 1/8 **SANTA FE SPRINGS, CA 90670**
1 ft.

Site 7 of 10 in cluster A

Relative: HAZNET:
Higher

Actual:
131 ft.

envid:	S112912570
Year:	2000
GEPAID:	CAC002326977
Contact:	ARMANDO ALFONZO/CROSSROADS SVC
Telephone:	5626906467
Mailing Name:	Not reported
Mailing Address:	13360 E FIRSTONE BLVD STE K
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906700000
Gen County:	Not reported
TSD EPA ID:	CAD982444481

ROLL PROPERTIES INTERNATIONAL ASSOCS III (Continued) **S112912570**

TSD County:	Not reported
Waste Category:	Oil/water separation sludge
Disposal Method:	Recycler
Tons:	14.59
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles
envid:	S112912570
Year:	2000
GEPAID:	CAC002326977
Contact:	ARMANDO ALFONZO/CROSSROADS SVC
Telephone:	5626906467
Mailing Name:	Not reported
Mailing Address:	13360 E FIRSTONE BLVD STE K
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906700000
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Tons:	0.4
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

A8 **GRAPHIC TECHNOLOGY INC** **RCRA-SQG 1000819121**
10010 PIONEER STE 102 **FINDS CAD983650896**
< 1/8 **SANTA FE SPRINGS, CA 90670** **ECHO**
1 ft. **HAZNET**

Site 8 of 10 in cluster A

Relative: Higher
Actual: 131 ft.

RCRA-SQG:

Date form received by agency:	10/26/1992
Facility name:	GRAPHIC TECHNOLOGY INC
Facility address:	10010 PIONEER STE 102 SANTA FE SPRINGS, CA 90670-6205
EPA ID:	CAD983650896
Mailing address:	10010 PIONEER STE FIRST HUNDRE SANTA FE SPRINGS, CA 90670-6205
Contact:	FRANK BRUCE
Contact address:	1554 VIA DEL RIO CORONA, CA 91720-4750
Contact country:	US
Contact telephone:	310-949-1370
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	GRAPHIC TECHNOLOGY INC
Owner/operator address:	301 GARDNER DR

GRAPHIC TECHNOLOGY INC (Continued) **1000819121**

INDUSTRIAL AIRPORT, KS 66031
Owner/operator country: Not reported
Owner/operator telephone: 800-764-5550
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002886324

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000819121
Registry ID: 110002886324
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002886324

GRAPHIC TECHNOLOGY INC (Continued) **1000819121**

HAZNET:

envid:	1000819121
Year:	2003
GEPAID:	CAD983650896
Contact:	FRANK BRUCE - GENERAL MANAGER
Telephone:	8009593311
Mailing Name:	Not reported
Mailing Address:	301 GARDNER DRIVE
Mailing City,St,Zip:	NEW CENTURY, KS 660310000
Gen County:	Not reported
TSD EPA ID:	CAT080033681
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Tons:	0.22
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000819121
Year:	2002
GEPAID:	CAD983650896
Contact:	FRANK BRUCE - GENERAL MANAGER
Telephone:	8009593311
Mailing Name:	Not reported
Mailing Address:	301 GARDNER DRIVE
Mailing City,St,Zip:	NEW CENTURY, KS 660310000
Gen County:	Not reported
TSD EPA ID:	CAT080033681
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Recycler
Tons:	0.1
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000819121
Year:	2001
GEPAID:	CAD983650896
Contact:	FRANK BRUCE - GENERAL MANAGER
Telephone:	8009593311
Mailing Name:	Not reported
Mailing Address:	301 GARDNER DRIVE
Mailing City,St,Zip:	NEW CENTURY, KS 660310000
Gen County:	Not reported
TSD EPA ID:	CAT080033681
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Tons:	0.56
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000819121
Year:	2000

GRAPHIC TECHNOLOGY INC (Continued) **1000819121**

GEPAID:	CAD983650896
Contact:	FRANK BRUCE - GENERAL MANAGER
Telephone:	8009593311
Mailing Name:	Not reported
Mailing Address:	301 GARDNER DRIVE
Mailing City,St,Zip:	NEW CENTURY, KS 660310000
Gen County:	Not reported
TSD EPA ID:	CAT080033681
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Tons:	0.45
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000819121
Year:	1999
GEPAID:	CAD983650896
Contact:	GRAPHIC TECHNOLOGY INC
Telephone:	8007677650
Mailing Name:	Not reported
Mailing Address:	10010 PIONEER BLVD STE 102
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906700000
Gen County:	Not reported
TSD EPA ID:	CAT080033681
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Not reported
Tons:	.4587
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
13 additional CA_HAZNET: record(s) in the EDR Site Report.

A9 **WHITE LABORATORIES INC** **LOS ANGELES CO. HMS** **S104734568**
10016 S PIONEER BLVD **N/A**
< 1/8 **SANTA FE SPRINGS, CA 90670**
1 ft.

Site 9 of 10 in cluster A

Relative: LOS ANGELES CO. HMS:
Higher

Region:	LA
Permit Category:	I
Facility Id:	004827-I05013
Facility Type:	01
Facility Status:	Closed
Area:	1H
Permit Number:	000004895
Permit Status:	Closed

Actual:
131 ft.

A10 **ROLL PROPERTIES INTERNATIONAL** **HAZNET** **S112931872**
9930 PIONEER BLVD #101 **N/A**
< 1/8 **SANTA FE SPRINGS, CA 90670**
1 ft.

Site 10 of 10 in cluster A

Relative: Higher
Actual: 131 ft.

HAZNET:

envid:	S112931872
Year:	2003
GEPAID:	CAC002568596
Contact:	JEFF HARDY
Telephone:	5629263004
Mailing Name:	Not reported
Mailing Address:	13360 E FIRESTONE BLVD UNIT K
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 90670
Gen County:	Not reported
TSD EPA ID:	CAL000827758
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Not reported
Tons:	0
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

B11 **MEPCO OIL INC** **EDR Hist Auto** **1022241256**
WSW **10016 PIONEER BLVD** **N/A**
< 1/8 **SANTA FE SPRINGS, CA 90670**
0.002 mi.
9 ft.

Site 1 of 3 in cluster B

Relative: Lower
Actual: 129 ft.

EDR Hist Auto

Year:	Name:	Type:
1995	CAMEL OIL CO INC	Gasoline Service Stations
1996	CAMEL OIL CO INC	Gasoline Service Stations
1996	MEPCO OIL INC	Engine Fuels And Oils
1997	MEPCO OIL INC	Engine Fuels And Oils
1998	MEPCO OIL INC	Engine Fuels And Oils
1999	MEPCO OIL INC	Engine Fuels And Oils
2000	MEPCO OIL INC	Engine Fuels And Oils

B12 **SANTA FE SPRINGS INDUSTRIAL PARK** **RCRA-SQG** **1007370148**
WSW **10044 PIONEER INDUSTRIAL PARK** **HAZNET** **CAR000153288**
< 1/8 **SANTA FE SPRINGS, CA 90670**
0.012 mi.
61 ft.

Site 2 of 3 in cluster B

Relative: Lower
Actual: 129 ft.

RCRA-SQG:

Date form received by agency:	05/18/2004
Facility name:	SANTA FE SPRINGS INDUSTRIAL PARK
Facility address:	10044 PIONEER INDUSTRIAL PARK SANTA FE SPRINGS, CA 90670
EPA ID:	CAR000153288
Contact:	JIM DUNAVANT
Contact address:	10044 PIONEER INDUSTRIAL PARK SANTA FE SPRINGS, CA 90670
Contact country:	US

SANTA FE SPRINGS INDUSTRIAL PARK (Continued) **1007370148**

Contact telephone: 562-949-0822
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: CAL WEST RREEF MNGMT CO
Owner/operator address: 10044 PIONEER BLVD
SANTA FE SPRINGS, CA 90670
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/01/1997
Owner/Op end date: Not reported

Owner/operator name: RREEF MANAGEMENT CO
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/01/1997
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

SANTA FE SPRINGS INDUSTRIAL PARK (Continued) **1007370148**

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Violation Status: No violations found

HAZNET:

envid:	1007370148
Year:	2004
GEPAID:	CAR000153288
Contact:	JIM DUNAVANT
Telephone:	5629490822
Mailing Name:	Not reported
Mailing Address:	10044 PIONEER INDUSTRIAL PARK
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906700000
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Off-specification, aged or surplus inorganics
Disposal Method:	Transfer Station
Tons:	9.19
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

B13 **DELTA MAGNETICS INC** **RCRA-SQG** **1000395256**
West **10039 S PIONEER** **FINDS** **CAD982517997**
< 1/8 **SANTA FE SPRINGS, CA 90670** **ECHO**
0.017 mi.
91 ft. **Site 3 of 3 in cluster B**

Relative: **Higher**
Actual: **131 ft.**

RCRA-SQG:

Date form received by agency:	12/18/1989
Facility name:	DELTA MAGNETICS INC
Facility address:	10039 S PIONEER SANTA FE SPRINGS, CA 90670
EPA ID:	CAD982517997
Mailing address:	S PIONEER SANTA FE SPRINGS, CA 90670
Contact:	ENVIRONMENTAL MANAGER
Contact address:	10039 S PIONEER SANTA FE SPRINGS, CA 90670
Contact country:	US
Contact telephone:	213-948-2222
Contact email:	Not reported
EPA Region:	09

DELTA MAGNETICS INC (Continued) **1000395256**

Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: MR HAN YUNG
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002839563

DELTA MAGNETICS INC (Continued) **1000395256**

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000395256
Registry ID: 110002839563
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002839563

C14 **INGERSOLL RAND** **RCRA-SQG** **1000857195**
SSW **11909 E TELEGRAPH RD** **FINDS** **CA0000069864**
< 1/8 **SANTA FE SPRINGS, CA 90670** **ECHO**
0.041 mi. **HAZNET**
217 ft. **Site 1 of 4 in cluster C**

Relative: Lower
Actual: 128 ft.

RCRA-SQG:
Date form received by agency: 02/11/1994
Facility name: INGERSOLL RAND
Facility address: 11909 E TELEGRAPH RD
SANTA FE SPRINGS, CA 90670
EPA ID: CA0000069864
Mailing address: E TELEGRAPH RD
SANTA FE SPRINGS, CA 90670
Contact: DAN STONE
Contact address: 11909 E TELEGRAPH RD
SANTA FE SPRINGS, CA 90670
Contact country: US
Contact telephone: 310-948-5858
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: INGERSOLL RAND
Owner/operator address: 11909 E TELEGRAPH RD
SANTA FE SPRINGS, CA 90670
Owner/operator country: Not reported
Owner/operator telephone: 310-948-5858
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported

INGERSOLL RAND (Continued) **1000857195**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002612441

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000857195
Registry ID: 110002612441
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002612441

HAZNET:
envid: 1000857195
Year: 1998
GEPAID: CA0000069864
Contact: INGERSOLL RAND
Telephone: 5629485858
Mailing Name: Not reported
Mailing Address: 11909 E TELEGRAPH RD
Mailing City,St,Zip: SANTA FE SPRINGS, CA 906700000
Gen County: Not reported
TSD EPA ID: CAT000613893
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Transfer Station

INGERSOLL RAND (Continued) **1000857195**

Tons: .2042
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

C15 **SMITHKLINE BIO SCIENCE LABS** **RCRA-SQG** **1000409618**
SSW **11871 E TELEGRAPH RD** **FINDS** **CAD982525941**
< 1/8 **SANTA FE SPRINGS, CA 90670** **ECHO**
0.044 mi.
231 ft. **Site 2 of 4 in cluster C**

Relative: **Lower**

Actual: **128 ft.**

RCRA-SQG:
Date form received by agency: 06/09/1989
Facility name: SMITHKLINE BIO SCIENCE LABS
Facility address: 11871 E TELEGRAPH RD
SANTA FE SPRINGS, CA 90670
EPA ID: CAD982525941
Mailing address: 11861 E TELEGRAPH RD
SANTA FE SPRINGS, CA 90670
Contact: ENVIRONMENTAL MANAGER
Contact address: 11871 E TELEGRAPH RD
SANTA FE SPRINGS, CA 90670
Contact country: US
Contact telephone: 800-423-5883
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: SMITHKLINE BIO SCIENCE LABORATORIES INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner

SMITHKLINE BIO SCIENCE LABS (Continued) **1000409618**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002842817

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000409618
Registry ID: 110002842817
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002842817

C16 **PEDRO PETROLEUM** **HIST CORTESE** **S100878131**
South **11916 TELEGRAPH** **N/A**
< 1/8 **SANTA FE SPRINGS, CA**
0.072 mi.
382 ft. **Site 3 of 4 in cluster C**

Relative:
Lower

Actual:
128 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-21538

C17 **PEDRO PETROLEUM** **LUST** **S102062221**
South **11916 TELEGRAPH RD E** **LOS ANGELES CO. HMS** **N/A**
< 1/8 **SANTA FE SPRINGS, CA 90670**
0.072 mi.
382 ft. **Site 4 of 4 in cluster C**

Relative:
Lower

Actual:
128 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603704479
Global Id:	T0603704479
Latitude:	33.944285
Longitude:	-118.0788753
Status:	Completed - Case Closed
Status Date:	01/28/1997
Case Worker:	YR
RB Case Number:	I-21538
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0603704479
Contact Type:	Local Agency Caseworker
Contact Name:	UNK
Organization Name:	R4 UNKNOWN
Address:	Not reported
City:	R4 UNKNOWN
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0603704479
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0603704479
Action Type:	Other
Date:	07/19/1994
Action:	Leak Reported

LUST:

Global Id:	T0603704479
Status:	Completed - Case Closed
Status Date:	01/28/1997

Global Id:	T0603704479
Status:	Open - Case Begin Date
Status Date:	03/10/1994

Global Id:	T0603704479

PEDRO PETROLEUM (Continued) **S102062221**

Status: Open - Site Assessment
Status Date: 03/10/1994

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	I-21538	
Status:	Case Closed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603704479	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19049	
Cross Street:	PIONEER BLVD	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		7/19/1994
Date Leak Record Entered:	11/3/1995	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		8/4/1994
Date the Case was Closed:		1/28/1997
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		137.78323685073652809262170272
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		3/10/1994
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	PEDRO PETROLEUM	
RP Address:	PO BOX 15116, LONG BEACH, CA 90815	
Program:	LUST	
Lat/Long:	33.9443457 / -1	
Local Agency Staff:	UNK	

PEDRO PETROLEUM (Continued) **S102062221**

Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 001454-021538
Facility Type: 1
Facility Status: Closed
Area: 1H
Permit Number: 000086710
Permit Status: Closed

D18 **W T BILLARD INC** **SWEEPS UST** **S106934151**
SE **10261 MATERN PL** **N/A**
< 1/8 **SANTE FE SPRINGS, CA**
0.080 mi.
422 ft. **Site 1 of 2 in cluster D**

Relative: **Higher**
Actual: **135 ft.**

SWEEPS UST:
Status: Active
Comp Number: 10140
Number: 9
Board Of Equalization: 44-008723
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-010140-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 1

E19 **S M W SYSTEMS** **RCRA-SQG** **1000905202**
North **9828 S ARLEE** **FINDS** **CA0000370916**
< 1/8 **SANTA FE SPRINGS, CA 90670** **ECHO**
0.080 mi.
425 ft. **Site 1 of 2 in cluster E**

Relative: **Higher**
Actual: **132 ft.**

RCRA-SQG:
Date form received by agency: 06/08/1994
Facility name: S M W SYSTEMS
Facility address: 9828 S ARLEE
SANTA FE SPRINGS, CA 90670
EPA ID: CA0000370916
Mailing address: S ARLEE
SANTA FE SPRINGS, CA 90670
Contact: MARTIN STENHOLTZ

S M W SYSTEMS (Continued) **1000905202**

Contact address: 9828 S ARLEE
SANTA FE SPRINGS, CA 90670
Contact country: US
Contact telephone: 310-949-7991
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: S M W SYSTEMS
Owner/operator address: 9828 S ARLEE
SANTA FE SPRINGS, CA 90670
Owner/operator country: Not reported
Owner/operator telephone: 310-949-7991
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002617776

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

S M W SYSTEMS (Continued) **1000905202**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
- Envid: 1000905202
- Registry ID: 110002617776
- DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002617776

F20 **A J VAN BASTELAAR** **SWEEPS UST** **S106922307**
East **10035 GEARY AVE** **N/A**
< 1/8 **SANTE FE SPRINGS, CA**
0.088 mi.
463 ft. **Site 1 of 2 in cluster F**

Relative: Higher
Actual: 147 ft.

SWEEPS UST:
- Status: Active
- Comp Number: 10306
- Number: 9
- Board Of Equalization: 44-008808
- Referral Date: 06-30-89
- Action Date: Not reported
- Created Date: 06-30-89
- Owner Tank Id: Not reported
- SWRCB Tank Id: 19-000-010306-000001
- Tank Status: A
- Capacity: Not reported
- Active Date: 06-30-89
- Tank Use: UNKNOWN
- STG: W
- Content: Not reported
- Number Of Tanks: 1

E21 **ELLISON MACHINERY CO** **RCRA-SQG** **1000263251**
North **9890 S PIONEER BLVD** **FINDS** **CAD981976855**
< 1/8 **SANTA FE SPRINGS, CA 90670** **ECHO**
0.098 mi.
519 ft. **Site 2 of 2 in cluster E**

Relative: Higher
Actual: 132 ft.

RCRA-SQG:
- Date form received by agency: 11/03/1992
- Facility name: ELLISON MACHINERY CO
- Facility address: 9890 S PIONEER BLVD
SANTA FE SPRINGS, CA 90670
- EPA ID: CAD981976855
- Mailing address: P O BOX 3508
SANTA FE SPRINGS, CA 90670-3508
- Contact: WILLIAM AMIGUET
- Contact address: P O BOX 3508
SANTA FE SPRINGS, CA 90670-3508
- Contact country: US
- Contact telephone: 310-949-8311
- Contact email: Not reported
- EPA Region: 09
- Classification: Small Small Quantity Generator
- Description: Handler: generates more than 100 and less than 1000 kg of hazardous

ELLISON MACHINERY CO (Continued) **1000263251**

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	ELLISON MACHINERY CO
Owner/operator address:	9912 S PIONEER BLVD SANTA FE SPRINGS, CA 90670
Owner/operator country:	Not reported
Owner/operator telephone:	310-949-8311
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002762163

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

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ELLISON MACHINERY CO (Continued) **1000263251**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000263251
Registry ID:	110002762163
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002762163

F22 **ROSE PAVING COMPANY** **AST** **A100423980**
ESE **10200 MATERN PL** **N/A**
< 1/8 **SANTA FE SPRINGS, CA 90670**
0.101 mi.
534 ft. **Site 2 of 2 in cluster F**

Relative:
Higher

Actual:
144 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	Rose Paving Company
Total Gallons:	Not reported
CERSID:	10644412
Facility ID:	Not reported
Business Name:	Rose Paving Company
Phone:	(909) 620-4300
Fax:	(909) 620-4400
Mailing Address:	10200 Matern Place
Mailing Address City:	Santa Fe Springs
Mailing Address State:	CA
Mailing Address Zip Code:	90670
Operator Name:	Rose Paving Company
Operator Phone:	(909) 620-4300
Owner Phone:	(909) 620-4300
Owner Mail Address:	7300 W 100th Place
Owner State:	IL
Owner Zip Code:	60455
Owner Country:	United States
Property Owner Name:	Rose Paving
Property Owner Phone:	(909)620-4300
Property Owner Mailing Address:	7300 w 100th Pl
Property Owner City:	Bridgeview
Property Owner Stat :	IL
Property Owner Zip Code:	60455
Property Owner Country:	United States
EPAID:	CAC002841848

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23 **PARTS EXPEDITING & DIST** **SWEEPS UST** **S106930516**
WNW **11704 E WILLAKE ST** **N/A**
< 1/8 **SANTE FE SPRINGS, CA**
0.101 mi.
535 ft.

Relative:
Higher

Actual:
132 ft.

SWEEPS UST:

Status:	Active
Comp Number:	5658
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89

PARTS EXPEDITING & DIST (Continued) **S106930516**

Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

D24 **ANDY PEYKOFF-ROCKY MTN WATER** **SWEEPS UST** **S106922689**
SE **10260 MATERN PL** **N/A**
< 1/8 **SANTE FE SPRINGS, CA**
0.106 mi.
560 ft. **Site 2 of 2 in cluster D**

Relative: SWEEPS UST:
Higher

Actual:
136 ft.

Status:	Active
Comp Number:	13751
Number:	9
Board Of Equalization:	44-010236
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-013751-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	2

Status:	Active
Comp Number:	13751
Number:	9
Board Of Equalization:	44-010236
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-013751-000002
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported

G25
NNE
1/8-1/4
0.144 mi.
760 ft.

ROHBACK COSASCO SYSTEMS
11841 SMITH
SANTA FE SPRINGS, CA 90670
Site 1 of 2 in cluster G

RCRA-SQG
FINDS
ECHO
EMI

1000161527
CAD982030413

Relative:
Higher

Actual:
137 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	ROHBACK COSASCO SYSTEMS
Facility address:	11841 SMITH SANTA FE SPRINGS, CA 90670
EPA ID:	CAD982030413
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	MASCO CORP
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No

ROHBACK COSASCO SYSTEMS (Continued) **1000161527**

Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	07/29/1987
Site name:	ROHBACK COSASCO SYSTEMS
Classification:	Large Quantity Generator
Violation Status:	No violations found

FINDS:

Registry ID: 110002782604

Environmental Interest/Information System

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Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000161527
Registry ID:	110002782604
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002782604

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	46132
Air District Name:	SC
SIC Code:	5311
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0

ROHBACK COSASCO SYSTEMS (Continued) **1000161527**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	46132
Air District Name:	SC
SIC Code:	5
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

G26 **SPIDER CA SAFEWORKS L P** **RCRA-SQG** **1000472927**
North **11801 E SMITH AVE** **CAD982435570**
1/8-1/4 **SANTA FE SPRINGS, CA 90670**
0.144 mi.
760 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
136 ft.

RCRA-SQG:

Date form received by agency:	08/10/2001
Facility name:	SPIDER CA SAFEWORKS L P
Facility address:	11801 E SMITH AVE SANTA FE SPRINGS, CA 90670-3226
EPA ID:	CAD982435570
Contact:	GOMEZ HELMAN
Contact address:	11801 E SMITH AVE SANTA FE SPRINGS, CA 90670-3226
Contact country:	US
Contact telephone:	562-948-1053
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	TOM CROSS
Owner/operator address:	365 UPLAND DR TUKWILA, WA 98188
Owner/operator country:	Not reported
Owner/operator telephone:	206-577-0116
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported

SPIDER CA SAFEWORKS L P (Continued) **1000472927**

Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D018
. Waste name: BENZENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

Violation Status: No violations found

H27 **SCE - WHITTIER SERVICE CENTER** **AST** **S102061675**
ENE **9901 S GEARY AVE** **LOS ANGELES CO. HMS** **N/A**
1/8-1/4 **SANTA FE SPRINGS, CA 90670**
0.167 mi.
881 ft. **Site 1 of 4 in cluster H**

Relative:
Higher

Actual:
149 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	Southern California Edison
Total Gallons:	Not reported
CERSID:	10158241
Facility ID:	Not reported
Business Name:	Southern California Edison, Transmission and Distribution Organization (TD)
Phone:	(626) 302-1212
Fax:	Not reported
Mailing Address:	P.O. Box 800 (Attn: CES Compliance Gateway 6040)
Mailing Address City:	Rosemead
Mailing Address State:	CA
Mailing Address Zip Code:	91770
Operator Name:	Southern California Edison
Operator Phone:	(626) 302-1212
Owner Phone:	(626) 302-1212
Owner Mail Address:	P.O. Box 800 (Attn: CES Compliance Gateway 6040)
Owner State:	CA
Owner Zip Code:	91770
Owner Country:	United States
Property Owner Name:	Southern California Edison
Property Owner Phone:	(626) 302-1212
Property Owner Mailing Address:	P.O. Box 800 (Attn: CES Compliance Gateway 6040)
Property Owner City:	Rosemead
Property Owner Stat :	CA
Property Owner Zip Code:	91770
Property Owner Country:	United States
EPAID:	CA0000235689

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	013966-014439
Facility Type:	0
Facility Status:	Closed
Area:	1H
Permit Number:	00005658T
Permit Status:	Closed

H28 **SOUTHERN CALIFORNIA EDISON** **AST** **S109349255**
ENE **9901 GEARY** **N/A**
1/8-1/4 **SANTA FE SPRINGS, CA**
0.167 mi.
881 ft. **Site 2 of 4 in cluster H**

Relative:
Higher

Actual:
149 ft.

AST:

Certified Unified Program Agencies:	Santa Fe Springs
Owner:	SOUTHERN CALIFORNIA EDISON
Total Gallons:	10,000
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported

SOUTHERN CALIFORNIA EDISON (Continued) **S109349255**

Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

H29 **WHITTIER CSO** **RCRA-LQG 1000904989**
ENE **9901 GEARY AVE.** **FINDS CA0000235689**
1/8-1/4 **SANTA FE SPRINGS, CA 90670** **ECHO**
0.167 mi.
881 ft. **Site 3 of 4 in cluster H**

Relative:
Higher

Actual:
149 ft.

RCRA-LQG:

Date form received by agency:	12/07/2010
Facility name:	SCE WHITTIER SVC CTR
Facility address:	9901 GEARY AVE SANTA FE SPRINGS, CA 90670
EPA ID:	CA0000235689
Mailing address:	PO BOX 800 ATTN SARA DUVALL ROSEMEAD, CA 91770
Contact:	SARA M DUVALL
Contact address:	PO BOX 800 ROSEMEAD, CA 91770
Contact country:	US
Contact telephone:	626-302-4187
Contact email:	SARA.DUVALL@SCE.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

WHITTIER CSO (Continued) **1000904989**

Owner/Operator Summary:

Owner/operator name:	SOUTHERN CALIFORNIA EDISON
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1989
Owner/Op end date:	Not reported

Owner/operator name:	SOUTHERN CALIFORNIA EDISON
Owner/operator address:	PO BOX 800
	ROSEMEAD, CA 91770
Owner/operator country:	US
Owner/operator telephone:	626-302-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1989
Owner/Op end date:	Not reported

Owner/operator name:	SOUTHERN CALIFORNIA EDISON CO
Owner/operator address:	P O BOX 800
	ROSEMEAD, CA 91770
Owner/operator country:	Not reported
Owner/operator telephone:	818-302-9320
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

WHITTIER CSO (Continued) **1000904989**

. Waste code: 133
. Waste name: Aqueous solution with 10% or more total organic residues

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 211
. Waste name: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 261
. Waste name: Polychlorinated biphenyls and material containing PCB’s

. Waste code: 272
. Waste name: Polymeric resin waste

. Waste code: 291
. Waste name: Latex waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 461
. Waste name: Degreasing sludge

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

. Waste code: 513
. Waste name: Empty containers less than 30 gallons

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

. Waste code: 551
. Waste name: Laboratory waste chemicals

WHITTIER CSO (Continued) **1000904989**

. Waste code: 731
. Waste name: Liquids with polychlorinated biphenyls > 50 mg/l

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D008
. Waste name: LEAD

. Waste code: D018
. Waste name: BENZENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

WHITTIER CSO (Continued) **1000904989**

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:
Date form received by agency: 03/04/1999
Site name: WHITTIER CSO
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: WHITTIER GARAGE AND SERVICE CENTER
Classification: Small Quantity Generator

Date form received by agency: 02/29/1996
Site name: SOUTHERN CALIFORNIA EDISON
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110058265005

Environmental Interest/Information System
STATE MASTER

Registry ID: 110000781271

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

WHITTIER CSO (Continued) **1000904989**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000904989
Registry ID: 110000781271
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110000781271

H30 **SO CAL EDISON WHITTIER SC** **SWEEPS UST** **S106932312**
ENE **9901 GEARY AVE** **N/A**
1/8-1/4 **SANTE FE SPRINGS, CA**
0.167 mi.
881 ft. **Site 4 of 4 in cluster H**

Relative:
Higher

Actual:
149 ft.

SWEEPS UST:
Status: Active
Comp Number: 14439
Number: 9
Board Of Equalization: 44-010425
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-014439-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 4

Status: Active
Comp Number: 14439
Number: 9
Board Of Equalization: 44-010425
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-014439-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 14439
Number: 9
Board Of Equalization: 44-010425
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89

SO CAL EDISON WHITTIER SC (Continued) **S106932312**

Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-014439-000003
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported
Status:	Active
Comp Number:	14439
Number:	9
Board Of Equalization:	44-010425
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-014439-000004
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported

31
East
1/8-1/4
0.178 mi.
942 ft.

Relative:
Higher

Actual:
147 ft.

MARK ANTHONY INC
10040 GEARY AVE
SANTA FE SPRINGS, CA 90670

RCRA-SQG **1000265841**
CHMIRS **CAD982502841**
FINDS
ECHO
EMI
HAZNET

RCRA-SQG:

Date form received by agency:	07/18/1989
Facility name:	MARK ANTHONY INC
Facility address:	10040 GEARY AVE SANTA FE SPRINGS, CA 90670
EPA ID:	CAD982502841
Mailing address:	P O BOX 3765 SANTA FE SPRINGS, CA 90670
Contact:	ENVIRONMENTAL MANAGER
Contact address:	10040 GEARY AVE SANTA FE SPRINGS, CA 90670
Contact country:	US
Contact telephone:	213-946-3387
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

MARK ANTHONY INC (Continued) **1000265841**

Owner/operator name: CORELLA STELLA
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

CHMIRS:
OES Incident Number: 5-5823
OES notification: 10/09/2005
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported

MARK ANTHONY INC (Continued) **1000265841**

Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	storm drain/ San Gabriel River
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2005
Agency:	Santa Fe Springs Fire Dept.
Incident Date:	10/9/200512:00:00 AM
Admin Agency:	Santa Fe Springs Fire Department
Amount:	Not reported
Contained:	No
Site Type:	Other
E Date:	Not reported
Substance:	Oil
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The caller is reporting a leak from an oil well production line.

MARK ANTHONY INC (Continued) **1000265841**

OES Incident Number:	10-6415
OES notification:	10/25/2010
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Unknown
Spill Site:	Merchant/Business
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Oz.
Other:	Not reported
Date/Time:	800
Year:	2010
Agency:	City of Santa Fe Springs
Incident Date:	10/24/2010
Admin Agency:	Santa Fe Springs Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Unknown
E Date:	Not reported
Substance:	Oil - transmission fluid
Quantity Released:	-1
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported

MARK ANTHONY INC (Continued) **1000265841**

#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Machine failed casing leak. Release was controlled and cleaned, but a small amount went into the storm drain. It is unknown where the storm drain leads.

FINDS:

Registry ID: 110001174372

Environmental Interest/Information System

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS AIR POLLUTANT MAJOR

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000265841
Registry ID:	110001174372
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110001174372

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	45611
Air District Name:	SC
SIC Code:	2299
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

MARK ANTHONY INC (Continued) **1000265841**

Total Organic Hydrocarbon Gases Tons/Yr:	8
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	45611
Air District Name:	SC
SIC Code:	2299
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	17
Reactive Organic Gases Tons/Yr:	16
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	45615
Air District Name:	SC
SIC Code:	2512
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	26
Reactive Organic Gases Tons/Yr:	25
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	45615
Air District Name:	SC
SIC Code:	2512
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	14
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0

MARK ANTHONY INC (Continued) **1000265841**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	45611
Air District Name:	SC
SIC Code:	2299
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	14
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	45615
Air District Name:	SC
SIC Code:	2512
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	27
Reactive Organic Gases Tons/Yr:	21
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	45611
Air District Name:	SC
SIC Code:	2512
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	45611

MARK ANTHONY INC (Continued) **1000265841**

Air District Name:	SC
SIC Code:	2512
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	45611
Air District Name:	SC
SIC Code:	2512
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	45611
Air District Name:	SC
SIC Code:	2512
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	45611
Air District Name:	SC
SIC Code:	2512
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4

MARK ANTHONY INC (Continued) **1000265841**

Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002
County Code:	19
Air Basin:	SC
Facility ID:	45611
Air District Name:	SC
SIC Code:	2512
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	19
Air Basin:	SC
Facility ID:	45611
Air District Name:	SC
SIC Code:	2512
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2004
County Code:	19
Air Basin:	SC
Facility ID:	45611
Air District Name:	SC
SIC Code:	2512
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.026
Reactive Organic Gases Tons/Yr:	0.95
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

MARK ANTHONY INC (Continued) **1000265841**

Year:	2005
County Code:	19
Air Basin:	SC
Facility ID:	45611
Air District Name:	SC
SIC Code:	2512
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.1128
Reactive Organic Gases Tons/Yr:	1.0640495
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2006
County Code:	19
Air Basin:	SC
Facility ID:	45611
Air District Name:	SC
SIC Code:	2512
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.9262071059823868812
Reactive Organic Gases Tons/Yr:	.915
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2007
County Code:	19
Air Basin:	SC
Facility ID:	45611
Air District Name:	SC
SIC Code:	2512
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.9262071059823868812
Reactive Organic Gases Tons/Yr:	.915
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HAZNET:

envid:	1000265841
Year:	2010
GEPAID:	CAD982502841
Contact:	SANDRA CORELLA
Telephone:	5629463387

MARK ANTHONY INC (Continued) **1000265841**

Mailing Name:	Not reported
Mailing Address:	PO BOX 3765
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906701765
Gen County:	Not reported
TSD EPA ID:	NVT330010000
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.125
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000265841
Year:	2010
GEPAID:	CAD982502841
Contact:	SANDRA CORELLA
Telephone:	5629463387
Mailing Name:	Not reported
Mailing Address:	PO BOX 3765
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906701765
Gen County:	Not reported
TSD EPA ID:	NVT330010000
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.15
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000265841
Year:	2002
GEPAID:	CAD982502841
Contact:	SANDRA CORELLA/GENERAL MANAGER
Telephone:	5629463387
Mailing Name:	Not reported
Mailing Address:	PO BOX 3765
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906701765
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Unspecified aqueous solution
Disposal Method:	Transfer Station
Tons:	Not reported
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000265841
Year:	2002
GEPAID:	CAD982502841
Contact:	SANDRA CORELLA/GENERAL MANAGER
Telephone:	5629463387
Mailing Name:	Not reported

MARK ANTHONY INC (Continued) **1000265841**

Mailing Address:	PO BOX 3765
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906701765
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Adhesives
Disposal Method:	Transfer Station
Tons:	0.22
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000265841
Year:	2002
GEPAID:	CAD982502841
Contact:	SANDRA CORELLA/GENERAL MANAGER
Telephone:	5629463387
Mailing Name:	Not reported
Mailing Address:	PO BOX 3765
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906701765
Gen County:	Not reported
TSD EPA ID:	CAD008302903
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Recycler
Tons:	0.22
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
2 additional CA_HAZNET: record(s) in the EDR Site Report.

I32 **DARCO INC** **SWEEPS UST** **S106925159**
ESE **10135 S GEARY AVE** **N/A**
1/8-1/4 **SANTE FE SPRINGS, CA**
0.182 mi.
963 ft. **Site 1 of 3 in cluster I**

Relative: **Higher**

Actual: **142 ft.**

SWEEPS UST:

Status:	Active
Comp Number:	10372
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-010372-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	1

I33 **DARCO INC** **RCRA-SQG** **1000176842**
ESE **10135 GEARY AVE** **FINDS** **CAD982504599**
1/8-1/4 **SANTA FE SPRINGS, CA 90671** **ECHO**
0.182 mi. **HAZNET**
963 ft. **Site 2 of 3 in cluster I**

Relative:
Higher

Actual:
142 ft.

RCRA-SQG:

Date form received by agency:	12/14/1989
Facility name:	DARCO INC
Facility address:	10135 GEARY AVE SANTA FE SPRINGS, CA 90671
EPA ID:	CAD982504599
Mailing address:	P O BOX 4207 SANTA FE SPRINGS, CA 90670
Contact:	ENVIRONMENTAL MANAGER
Contact address:	10135 GEARY AVE SANTA FE SPRINGS, CA 90671
Contact country:	US
Contact telephone:	213-946-4333
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	GARY DARNELL
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

DARCO INC (Continued) **1000176842**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002835326

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000176842
Registry ID:	110002835326
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002835326

HAZNET:

envid:	1000176842
Year:	1998
GEPAID:	CAD982504599
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	P O BOX 4207
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906700000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Disposal, Other
Tons:	.4587
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid: 1000176842

DARCO INC (Continued) **1000176842**

Year:	1998
GEPAID:	CAD982504599
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	P O BOX 4207
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906700000
Gen County:	Not reported
TSD EPA ID:	CAD097030993
TSD County:	Not reported
Waste Category:	Unspecified alkaline solution
Disposal Method:	Recycler
Tons:	24.7775
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000176842
Year:	1998
GEPAID:	CAD982504599
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	P O BOX 4207
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906700000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Tons:	8.3400
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

J34 **SMITH AVENUE** **HIST UST** **U001565162**
NE **11919 SMITH AVENUE** **NPDES** **N/A**
1/8-1/4 **SANTA FE SPRINGS, CA 90670** **CIWQS**
0.186 mi.
981 ft. **Site 1 of 2 in cluster J**

Relative: HIST UST:
Higher

Actual: File Number:	00028BDA
149 ft. URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028BDA.pdf
Region:	STATE
Facility ID:	00000004838
Facility Type:	Other
Other Type:	STEEL DISTRIBUTOR
Contact Name:	Not reported
Telephone:	2139449919
Owner Name:	THE RJM COMPANY
Owner Address:	11919 SMITH AVENUE
Owner City,St,Zip:	SANTA FE SPRINGS, CA 90670
Total Tanks:	0001
Tank Num:	001
Container Num:	0001
Year Installed:	1979

SMITH AVENUE (Continued) **U001565162**

Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

NPDES:

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	4 19C363918
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	04/23/2014
Operator Name:	CSIP WR Santa Fe Springs LLC
Operator Address:	500 Newport Center Dr Ste 630
Operator City:	Newport Beach
Operator State:	California
Operator Zip:	92660

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	427783
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	4 19C363918
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	01/28/2014
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	06/04/2012

SMITH AVENUE (Continued) **U001565162**

Processed Date:	06/21/2012
Status:	Terminated
Status Date:	04/23/2014
Place Size:	4.6
Place Size Unit:	Acres
Contact:	Vance Mape
Contact Title:	Not reported
Contact Phone:	949-720-3787
Contact Phone Ext:	Not reported
Contact Email:	vmape@westernrealco.com
Operator Name:	CSIP WR Santa Fe Springs LLC
Operator Address:	500 Newport Center Dr Ste 630
Operator City:	Newport Beach
Operator State:	California
Operator Zip:	92660
Operator Contact:	Vance Mape
Operator Contact Title:	Not reported
Operator Contact Phone:	949-720-3787
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	vmape@westernrealco.com
Operator Type:	Private Business
Developer:	CSIP WR Santa Fe Springs LLC
Developer Address:	500 Newport Center Dr Ste 630
Developer City:	Newport Beach
Developer State:	California
Developer Zip:	92660
Developer Contact:	Vance Mape
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Gabriel River
Certifier:	Vance Mape
Certifier Title:	Not reported
Certification Date:	04-JUN-12
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

SMITH AVENUE (Continued) **U001565162**

CIWQS:

Agency:	CSIP WR Santa Fe Springs LLC
Agency Address:	500 Newport Center Dr Ste 630, Newport Beach, CA 92660
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	4
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	4 19C363918
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	06/21/2012
Termination Date:	01/28/2014
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.94944
Longitude:	-118.07389

J35 **R J M COMPANY** **SWEEPS UST** **S106931029**
NE **11919 SMITH DR** **N/A**
1/8-1/4 **SANTE FE SPRINGS, CA 90670**
0.186 mi.
981 ft. **Site 2 of 2 in cluster J**

Relative:
Higher

Actual:
149 ft.

SWEEPS UST:

Status:	Active
Comp Number:	14360
Number:	9
Board Of Equalization:	Not reported
Referral Date:	08-23-90
Action Date:	08-23-90
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

I36 **DARCO USA, INC.** **WMUDS/SWAT** **S104384505**
ESE **10145 GEARY AVE** **N/A**
1/8-1/4 **SANTA FE SPRINGS CA, CA 90670**
0.189 mi.
996 ft. **Site 3 of 3 in cluster I**

Relative: WMUDS/SWAT:
Higher

Actual: Edit Date: Not reported
141 ft. Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.
Primary Waste: CNSOIL
Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Base Meridian: Not reported
NPID: Not reported
Tonnage: 0
Regional Board ID: Not reported
Municipal Solid Waste: False
Superorder: False
Open To Public: False
Waste List: False
Agency Type: Private
Agency Name: DARCO USA, INC.
Agency Department: Not reported
Agency Address: 10135 GEARY AVE.
Agency City,St,Zip: SANTA FE SPRINGS CA 90670
Agency Contact: GARY DURNELL
Agency Telephone: 5629464333
Land Owner Name: Not reported
Land Owner Address: Not reported
Land Owner City,St,Zip: Not reported
Land Owner Contact: Not reported
Land Owner Phone: Not reported
Region: 4
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Description: Not reported
Facility Telephone: 5629464333
SWAT Facility Name: Not reported
Primary SIC: Not reported
Secondary SIC: Not reported
Comments: Not reported
Last Facility Editors: Not reported
Waste Discharge System: True
Solid Waste Assessment Test Program: False
Toxic Pits Cleanup Act Program: False
Resource Conservation Recovery Act: False
Department of Defence: False
Solid Waste Assessment Test Program: Not reported
Threat to Water Quality: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be

DARCO USA, INC. (Continued) **S104384505**

considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Sub Chapter 15: True
Regional Board Project Officer: Not reported
Number of WMUDS at Facility: 0
Section Range: Not reported
RCRA Facility: No
Waste Discharge Requirements: A
Self-Monitoring Rept. Frequency: Not reported
Waste Discharge System ID: 4B196900130
Solid Waste Information ID: Not reported

K37 **FIRE STATION 4** **HIST UST** **U001565042**
West **11736 TELEGRAPH RD** **N/A**
1/8-1/4 **SANTA FE SPRINGS, CA 90670**
0.191 mi.
1007 ft. **Site 1 of 4 in cluster K**

Relative: **Higher**
Actual: **133 ft.**

HIST UST:
File Number: 00027252
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027252.pdf
Region: STATE
Facility ID: 00000029453
Facility Type: Other
Other Type: FIRE STA.
Contact Name: CHIEF WHITT
Telephone: 2139449713
Owner Name: CITY OF SANTA FE SPRINGS FIRE
Owner Address: 11300 GREENSTONE AVE
Owner City,St,Zip: SANTA FE SPRINGS, CA 90670
Total Tanks: 0001

Tank Num: 001
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

K38 **CITY OF SANTA FE SPRINGS** **LUST** **S101298043**
West **11736 TELEGRAPH** **HIST CORTESE** **N/A**
1/8-1/4 **SANTA FE SPRINGS, CA 90670**
0.191 mi.
1007 ft. **Site 2 of 4 in cluster K**

Relative: **Higher**
Actual: **133 ft.**

LUST:
Lead Agency: SANTA FE SPRINGS, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603703656
Global Id: T0603703656
Latitude: 33.9459237

CITY OF SANTA FE SPRINGS (Continued) **S101298043**

Longitude: -118.0828573
Status: Completed - Case Closed
Status Date: 03/12/1992
Case Worker: Not reported
RB Case Number: I-10769
Local Agency: Not reported
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0603703656
Contact Type: Local Agency Caseworker
Contact Name: UNK
Organization Name: R4 UNKNOWN
Address: Not reported
City: R4 UNKNOWN
Email: Not reported
Phone Number: Not reported

Global Id: T0603703656
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603703656
Action Type: Other
Date: 05/21/1991
Action: Leak Reported

Global Id: T0603703656
Action Type: Other
Date: 04/18/1991
Action: Leak Discovery

Global Id: T0603703656
Action Type: Other
Date: 04/18/1991
Action: Leak Stopped

LUST:
Global Id: T0603703656
Status: Completed - Case Closed
Status Date: 03/12/1992

Global Id: T0603703656
Status: Open - Case Begin Date
Status Date: 03/11/1991

Global Id: T0603703656

CITY OF SANTA FE SPRINGS (Continued) **S101298043**

Status: Open - Remediation
Status Date: 08/08/1991

Global Id: T0603703656
Status: Open - Remediation
Status Date: 10/24/1991

Global Id: T0603703656
Status: Open - Site Assessment
Status Date: 03/11/1991

Global Id: T0603703656
Status: Open - Site Assessment
Status Date: 04/18/1991

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-10769
Status: Case Closed
Substance: Diesel
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603703656
W Global ID: Not reported
Staff: UNK
Local Agency: 19049
Cross Street: ALONDRA
Enforcement Type: Informal Enforcement Actions,including Notices of Violations and Staff Enforcement Letters
Date Leak Discovered: 4/18/1991
Date Leak First Reported: 5/21/1991
Date Leak Record Entered: 5/22/1991
Date Confirmation Began: Not reported
Date Leak Stopped: 4/18/1991
Date Case Last Changed on Database: 6/30/1992
Date the Case was Closed: 3/12/1992
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: MARQUARDT, ARNOLD E.
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 1468.57356981038657854587032 32
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: 3/11/1991
Preliminary Site Assessment Began: 4/18/1991
Pollution Characterization Began: Not reported
Remediation Plan Submitted: 8/8/1991
Remedial Action Underway: 10/24/1991
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: 1/1/1965
Historical Max MTBE Date: Not reported

CITY OF SANTA FE SPRINGS (Continued) **S101298043**

Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: CITY OF SANTA FE SPRINGS F.D.
RP Address: 11300 GREENSTONE AVE., SANTA FE SPRINGS, 90670-4619
Program: LUST
Lat/Long: 33.9459707 / -1
Local Agency Staff: UNK
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: CLOSURE PERMIT NO. 7914B

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-10769

K39 **CITY OF SANTA FE SPRINGS FIRE DEPT STATION 4** **UST** **U003783703**
West **11736 TELEGRAPH RD** **N/A**
1/8-1/4 **SANTA FE SPRINGS, CA 90670**
0.191 mi.
1007 ft. **Site 3 of 4 in cluster K**

Relative: **Higher**

Actual: **133 ft.**

UST:
Facility ID: Not reported
Permitting Agency: Santa Fe Springs Fire-Rescue
Latitude: 33.94605
Longitude: -118.08323

Facility ID: 601087
Permitting Agency: SANTA FE SPRINGS, CITY OF
Latitude: 33.94602
Longitude: -118.0831

K40 **CITY OF SANTA FE SPRINGS FIRE** **SWEEPS UST** **S101583229**
West **11736 E TELEGRAPH RD** **CA FID UST** **N/A**
1/8-1/4 **SANTA FE SPRINGS, CA 90670** **LOS ANGELES CO. HMS**
0.191 mi.
1007 ft. **Site 4 of 4 in cluster K**

Relative: **Higher**

Actual: **133 ft.**

SWEEPS UST:
Status: Active
Comp Number: 10769
Number: 4
Board Of Equalization: 44-009015
Referral Date: 03-29-91
Action Date: 03-29-91
Created Date: 06-30-89

CITY OF SANTA FE SPRINGS FIRE (Continued) **S101583229**

Owner Tank Id: 2
SWRCB Tank Id: 19-000-010769-000002
Tank Status: A
Capacity: 1000
Active Date: 04-19-91
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 1

Status: Not reported
Comp Number: 10769
Number: Not reported
Board Of Equalization: 44-009015
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-010769-000001
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: 1

CA FID UST:
Facility ID: 19003121
Regulated By: UTNKA
Regulated ID: 00029453
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2138680511
Mail To: Not reported
Mailing Address: 11736 TELEGRAPH RD
Mailing Address 2: Not reported
Mailing City,St,Zip: SANTA FE SPRINGS 90670
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 010808-010769
Facility Type: 0
Facility Status: Closed
Area: 1H
Permit Number: 00002213T
Permit Status: Closed

41
SE
1/8-1/4
0.215 mi.
1133 ft.

MOBIL OIL CORP DJG COMMUNITY
COR GEARY TELEGRAPH RD
SANTA FE SPRINGS, CA 90670

RCRA-SQG **1000253667**
CAD000627984

Relative:
Higher

Actual:
133 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	MOBIL OIL CORP DJG COMMUNITY
Facility address:	COR GEARY TELEGRAPH RD SANTA FE SPRINGS, CA 90670
EPA ID:	CAD000627984
Mailing address:	P O BOX 5444 DENVER, CO 80217
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	MOBIL OIL CORPORATION
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

MOBIL OIL CORP DJG COMMUNITY (Continued) **1000253667**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	08/18/1980
Site name:	MOBIL OIL CORP DJG COMMUNITY
Classification:	Large Quantity Generator
Violation Status:	No violations found

L42
WNW
1/8-1/4
0.215 mi.
1134 ft.

SANTA CLARITA SANITARY **SWF/LF** **S111076084**
9814 ALBUTIS AVENUE **N/A**
SANTA FE SPRINGS, CA

Site 1 of 2 in cluster L

Relative:
Higher

Actual:
132 ft.

LOS ANGELES CO. LF:

Site ID:	2231
Alt. Address:	Not reported
Site Contact:	Not reported
Site Contact Phone:	Not reported
Site Email:	Not reported
Site Website:	Not reported
Site Type:	Unknown
Site SWIS Number:	19-AI-5209
Beginning Operation Date:	Not reported
Ending Operation Date:	Not reported
Local Enforcement Agency:	Not reported
Maximun Depth Fill(Ft):	Not reported
Permitted Capacity:	Not reported
Present Use:	Residential
Remaining Capacity(Million):	Not reported
Status:	Closed
Waste Accepted:	Not reported
Hours of Operation:	Not reported
Disposal Area (Acre):	Not reported

Detail As Of 01/2014:

Operator Name:	Unknown
Operator Address:	Not reported
Operator City/State/Zip:	Not reported
Operator Contact:	Not reported
Operator Telephone:	Not reported
Operator Email:	Not reported
Owner Name:	Unknown
Owner Address:	Not reported
Owner City/State/Zip:	Not reported
Owner Contact:	Not reported

SANTA CLARITA SANITARY (Continued) **S111076084**

Owner Telephone: Not reported
Owner Email: Not reported

L43 **SANTA FE SPRINGS WASTE WATER DISPOSAL** **ENVIROSTOR** **S103441565**
NW **9814 SOUTH ALBUSTIS AVENUE** **WMUDS/SWAT** **N/A**
1/8-1/4 **SANTA FE SPRINGS, CA 90670**
0.216 mi.
1143 ft. **Site 2 of 2 in cluster L**

Relative:
Higher

Actual:
132 ft.

ENVIROSTOR:
Facility ID: 19490017
Status: Refer: RWQCB
Status Date: 05/26/1995
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: RWQCB 4 - Los Angeles
Lead Agency: RWQCB 4 - Los Angeles
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Chatsworth
Assembly: Not reported
Senate: Not reported
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.94894
Longitude: -118.0828
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * OXYGENATED SOLVENTS * UNSPECIFIED ACID SOLUTION * UNSPECIFIED AQUEOUS SOLUTION * UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED ORGANIC LIQUID MIXTURE
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD932360406
Alias Type: EPA Identification Number
Alias Name: 19490017
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/29/1980
Comments: Facility Identified: RWQCB - disposal oil field brine. 2500000 gallons/day solid waste trucked to Long Beach. Violations: discharge to river.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 01/12/1994
Comments: Site screening conducted, site is not on current RWQCB UST or SLIC lists. From 9728 to 9816 is now a business park. No signs of HW or

SANTA FE SPRINGS WASTE WATER DISPOSAL (Continued) **S103441565**

release at time of visit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 10/01/1988
Comments: Preliminary Assessment Done: Site referred to RWQCB for groundwater contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/08/1987
Comments: Site Screening Done: Preliminary Assessment recommended due to onsite hazardous waste disposal.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

WMUDS/SWAT:
Edit Date: Not reported
Complexity: Not reported
Primary Waste: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Base Meridian: Not reported
NPID: Not reported
Tonnage: 0
Regional Board ID: Not reported
Municipal Solid Waste: False
Superorder: False
Open To Public: False
Waste List: False
Agency Type: Not reported
Agency Name: SANTA FE SPRINGS WASTE WATER D
Agency Department: Not reported
Agency Address: Not reported
Agency City,St,Zip: Not reported
Agency Contact: Not reported
Agency Telephone: Not reported
Land Owner Name: Not reported
Land Owner Address: Not reported
Land Owner City,St,Zip: CA
Land Owner Contact: Not reported
Land Owner Phone: Not reported
Region: 4
Facility Type: Not reported
Facility Description: Not reported
Facility Telephone: Not reported

SANTA FE SPRINGS WASTE WATER DISPOSAL (Continued) **S103441565**

SWAT Facility Name:	Not reported
Primary SIC:	Not reported
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	SANTA FE SPRINGS WASTE WATER DISP.
Threat to Water Quality:	Not reported
Sub Chapter 15:	False
Regional Board Project Officer:	LT
Number of WMUDS at Facility:	1
Section Range:	Not reported
RCRA Facility:	Not reported
Waste Discharge Requirements:	Not reported
Self-Monitoring Rept. Frequency:	Not reported
Waste Discharge System ID:	4 190339NUR
Solid Waste Information ID:	Not reported

44
NW
1/8-1/4
0.221 mi.
1167 ft.

ANCHOR LITH-KEM-KO WHSE **RCRA-SQG** **1000243850**
9750 ALBURTIS AVE **FINDS** **CAT080032899**
SANTA FE SPRINGS, CA 90670 **ECHO**

Relative:
Higher

Actual:
132 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	ANCHOR LITH-KEM-KO WHSE
Facility address:	9750 ALBURTIS AVE SANTA FE SPRINGS, CA 90670
EPA ID:	CAT080032899
Mailing address:	ALBURTIS AVE SANTA FE SPRINGS, CA 90670
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported

ANCHOR LITH-KEM-KO WHSE (Continued) **1000243850**

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: LOU RADLER CHESSCO INDUSTRIES
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002956980

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000243850

ANCHOR LITH-KEM-KO WHSE (Continued) **1000243850**

Registry ID: 110002956980
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002956980

45
NNW
1/8-1/4
0.228 mi.
1203 ft.

SOUTHERN CALIFORNIA EDISON - WHITTIER **CPS-SLIC** **S106485446**
SMITH AVE **N/A**
SANTA FE SPRINGS, CA 90670

Relative:
Higher

Actual:
135 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	06/16/1965
Global Id:	SLT4305654
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.950646
Longitude:	-118.0807
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	0095
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

M46
West
1/8-1/4
0.242 mi.
1277 ft.

UNOCAL #5435 **LUST** **S102440038**
11651 TELEGRAPH RD **N/A**
SANTA FE SPRINGS, CA 90670

Site 1 of 7 in cluster M

Relative:
Higher

Actual:
134 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	I-06156	
Status:	Case Closed	
Substance:	Diesel	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603703176	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19049	
Cross Street:	ALBURTIE	
Enforcement Type:	Not reported	
Date Leak Discovered:	7/3/1991	
Date Leak First Reported:		7/3/1991
Date Leak Record Entered:	7/5/1991	
Date Confirmation Began:	7/18/1991	

UNOCAL #5435 (Continued) **S102440038**

Date Leak Stopped:	7/3/1991	
Date Case Last Changed on Database:		2/25/1997
Date the Case was Closed:		1/11/1997
How Leak Discovered:	Tank Test	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	Tank	
Operator:	SOMAAN, GEORGE	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1194.5999801183618515998141024
Source of Cleanup Funding:		Tank
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		4/23/1992
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	UNOCAL CORPORATION	
RP Address:	376 VALENCIA AVE. S., BREA, CA 92621	
Program:	LUST	
Lat/Long:	33.9469817 / -1	
Local Agency Staff:	UNK	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	PENDING CONFIRMATION AND SITE INVESTIGATION 09/30/96 QUARTERLY MONITORING REPORT 02/25/97 WELL ABANDONMENT REPORT	

M47 **SANTA FE ENERGY** **LUST** **S113026416**
West **11651 TELEGRAPH ROAD** **HAZNET** **N/A**
1/8-1/4 **SANTA FE SPRINGS, CA 90670** **NPDES**
0.242 mi. **CIWQS**
1277 ft. **Site 2 of 7 in cluster M**

Relative: LUST:
Higher

Actual: Lead Agency:	LOS ANGELES RWQCB (REGION 4)
134 ft. Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000006363
Global Id:	T10000006363
Latitude:	33.9470088
Longitude:	-118.0842432
Status:	Open - Site Assessment
Status Date:	07/13/2015
Case Worker:	JR
RB Case Number:	I-06156A

SANTA FE ENERGY (Continued) **S113026416**

Local Agency: Not reported
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T10000006363
Contact Type: Regional Board Caseworker
Contact Name: JAMES RYAN
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: West 4th Street, Suite 200
City: LOS ANGELES
Email: jamesw.ryan@waterboards.ca.gov
Phone Number: 2135766711

LUST:
Global Id: T10000006363
Action Type: ENFORCEMENT
Date: 09/21/2015
Action: Staff Letter

Global Id: T10000006363
Action Type: ENFORCEMENT
Date: 08/16/2016
Action: Staff Letter

Global Id: T10000006363
Action Type: ENFORCEMENT
Date: 11/08/2016
Action: Staff Letter

Global Id: T10000006363
Action Type: ENFORCEMENT
Date: 02/22/2017
Action: Staff Letter

Global Id: T10000006363
Action Type: ENFORCEMENT
Date: 10/28/2015
Action: Staff Letter

Global Id: T10000006363
Action Type: Other
Date: 11/21/2014
Action: Leak Reported

Global Id: T10000006363
Action Type: RESPONSE
Date: 10/30/2015
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T10000006363
Action Type: RESPONSE
Date: 04/15/2018
Action: Monitoring Report - Semi-Annually

SANTA FE ENERGY (Continued) **S113026416**

Global Id: T10000006363
Action Type: RESPONSE
Date: 11/28/2016
Action: Other Report / Document

Global Id: T10000006363
Action Type: RESPONSE
Date: 10/15/2016
Action: Well Installation Workplan - Regulator Responded

Global Id: T10000006363
Action Type: ENFORCEMENT
Date: 07/13/2015
Action: Staff Letter

Global Id: T10000006363
Action Type: ENFORCEMENT
Date: 11/21/2014
Action: Unauthorized Release Form

Global Id: T10000006363
Action Type: RESPONSE
Date: 04/28/2017
Action: Well Installation Report

Global Id: T10000006363
Action Type: Other
Date: 10/09/2013
Action: Leak Began

Global Id: T10000006363
Action Type: RESPONSE
Date: 01/30/2016
Action: Soil and Water Investigation Report

Global Id: T10000006363
Action Type: ENFORCEMENT
Date: 03/10/2015
Action: Referral to Regional Board

Global Id: T10000006363
Action Type: Other
Date: 10/09/2013
Action: Leak Discovery

Global Id: T10000006363
Action Type: RESPONSE
Date: 08/13/2015
Action: Other Report / Document

Global Id: T10000006363
Action Type: RESPONSE
Date: 10/15/2017
Action: Monitoring Report - Semi-Annually

Global Id: T10000006363
Action Type: RESPONSE

SANTA FE ENERGY (Continued) **S113026416**

Date: 07/15/2017
Action: Monitoring Report - Semi-Annually

LUST:
Global Id: T10000006363
Status: Open - Case Begin Date
Status Date: 10/09/2013

Global Id: T10000006363
Status: Open - Site Assessment
Status Date: 11/21/2014

Global Id: T10000006363
Status: Open - Site Assessment
Status Date: 07/13/2015

HAZNET:
envid: S113026416
Year: 1995
GEPAID: CAL000013939
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Treatment, Tank
Tons: 1.6263
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113026416
Year: 1995
GEPAID: CAL000013939
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Tons: .8340
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113026416
Year: 1994

SANTA FE ENERGY (Continued) **S113026416**

GEPAID: CAL000013939
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Treatment, Tank
Tons: 5.2750
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113026416
Year: 1993
GEPAID: CAL000013939
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Treatment, Tank
Tons: 3.7321
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113026416
Year: 1993
GEPAID: CAL000013939
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Not reported
TSD EPA ID: CAT080011059
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues 10 percent or more
Disposal Method: Recycler
Tons: 2.29349999999
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

NPDES:
Facility Status: Active

SANTA FE ENERGY (Continued) **S113026416**

NPDES Number:	CAS000002
Region:	4
Agency Number:	0
Regulatory Measure ID:	459165
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	4 19C373625
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/05/2015
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	10240 Geary Avenue
Discharge Name:	Santa Fe Energy
Discharge City:	Santa Fe Springs
Discharge State:	California
Discharge Zip:	90670
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	4
Regulatory Measure ID:	459165
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 19C373625
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/05/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Santa Fe Energy
Discharge Address:	10240 Geary Avenue
Discharge City:	Santa Fe Springs
Discharge State:	California
Discharge Zip:	90670
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported

SANTA FE ENERGY (Continued) **S113026416**

Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	459165
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	4 19C373625
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported

SANTA FE ENERGY (Continued) **S113026416**

Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	07/23/2015
Processed Date:	08/05/2015
Status:	Active
Status Date:	08/05/2015
Place Size:	.47
Place Size Unit:	Acres
Contact:	Fadel El Shahawi
Contact Title:	Not reported
Contact Phone:	562-903-1433
Contact Phone Ext:	Not reported
Contact Email:	fadel@downeydistributing.com
Operator Name:	Santa Fe Energy
Operator Address:	10240 Geary Avenue
Operator City:	Santa Fe Springs
Operator State:	California
Operator Zip:	90670
Operator Contact:	Fadel El Shahawi
Operator Contact Title:	Not reported
Operator Contact Phone:	562-903-1433
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	fadel@downeydistributing.com
Operator Type:	Private Business
Developer:	Santa Fe Energy
Developer Address:	10240 Geary Avenue
Developer City:	Santa Fe Springs
Developer State:	California
Developer Zip:	90670
Developer Contact:	Fadel El Shahawi
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	ML-D Light Manufacturing Design
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Gabriel River

SANTA FE ENERGY (Continued) **S113026416**

Certifier:	Fadel El Shahawi
Certifier Title:	Mr
Certification Date:	23-JUL-15
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	4 19C373625
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	08/05/2015
Operator Name:	Santa Fe Energy
Operator Address:	10240 Geary Avenue
Operator City:	Santa Fe Springs
Operator State:	California
Operator Zip:	90670

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	4
Regulatory Measure ID:	459165
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 19C373625
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/05/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Santa Fe Energy
Discharge Address:	10240 Geary Avenue
Discharge City:	Santa Fe Springs
Discharge State:	California
Discharge Zip:	90670
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported

SANTA FE ENERGY (Continued) **S113026416**

Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported

SANTA FE ENERGY (Continued) **S113026416**

Region:	4
Regulatory Measure ID:	459165
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	4 19C373625
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	07/23/2015
Processed Date:	08/05/2015
Status:	Active
Status Date:	08/05/2015
Place Size:	.47
Place Size Unit:	Acres
Contact:	Fadel El Shahawi
Contact Title:	Not reported
Contact Phone:	562-903-1433
Contact Phone Ext:	Not reported
Contact Email:	fadel@downeydistributing.com
Operator Name:	Santa Fe Energy
Operator Address:	10240 Geary Avenue
Operator City:	Santa Fe Springs
Operator State:	California
Operator Zip:	90670
Operator Contact:	Fadel El Shahawi
Operator Contact Title:	Not reported
Operator Contact Phone:	562-903-1433
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	fadel@downeydistributing.com
Operator Type:	Private Business
Developer:	Santa Fe Energy
Developer Address:	10240 Geary Avenue
Developer City:	Santa Fe Springs
Developer State:	California
Developer Zip:	90670
Developer Contact:	Fadel El Shahawi
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported

SANTA FE ENERGY (Continued) **S113026416**

Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	ML-D Light Manufacturing Design
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Gabriel River
Certifier:	Fadel El Shahawi
Certifier Title:	Mr
Certification Date:	23-JUL-15
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Agency:	Santa Fe Energy
Agency Address:	10240 Geary Avenue, Santa Fe Springs , CA 90670
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	4
Program:	CONSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	4 19C373625
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	08/05/2015
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.94617
Longitude:	-118.08867

M48 **UNION OIL SERVICE STATION 5435** **HIST UST** **U001565170**
West **11651 TELEGRAPH** **N/A**
1/8-1/4 **SANTA FE SPRINGS, CA 90670**
0.242 mi.
1277 ft. **Site 3 of 7 in cluster M**

Relative:
Higher

Actual:
134 ft.

HIST UST:

File Number:	00028220
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028220.pdf
Region:	STATE
Facility ID:	00000055504
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	JACK K. MARTIN
Telephone:	2136998611

UNION OIL SERVICE STATION 5435 (Continued) **U001565170**

Owner Name:	UNION OIL COMPANY OF CALIFORNI
Owner Address:	3701 WILSHIRE BOULEVARD-SUITE
Owner City,St,Zip:	LOS ANGELES, CA 90010
Total Tanks:	0001
Tank Num:	001
Container Num:	5435-00
Year Installed:	Not reported
Tank Capacity:	00000607
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

M49 **UNOCAL JACK K MARTIN** **SWEEPS UST** **S106933519**
West **11651 E TELEGRAPH RD** **N/A**
1/8-1/4 **SANTE FE SPRINGS, CA 90670**
0.242 mi.
1277 ft. **Site 4 of 7 in cluster M**

Relative:
Higher

Actual:
134 ft.

SWEEPS UST:

Status:	Active
Comp Number:	6156
Number:	1
Board Of Equalization:	44-001057
Referral Date:	01-04-91
Action Date:	01-04-91
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-006156-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	3
Status:	Active
Comp Number:	6156
Number:	1
Board Of Equalization:	44-001057
Referral Date:	01-04-91
Action Date:	01-04-91
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-006156-000003
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported
Status:	Active

UNOCAL JACK K MARTIN (Continued) **S106933519**

Comp Number:	6156
Number:	1
Board Of Equalization:	44-001057
Referral Date:	01-04-91
Action Date:	01-04-91
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-006156-000004
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	6156
Number:	Not reported
Board Of Equalization:	44-001057
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-006156-000002
Tank Status:	Not reported
Capacity:	280
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	Not reported
Number Of Tanks:	2

Status:	Not reported
Comp Number:	6156
Number:	Not reported
Board Of Equalization:	44-001057
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-006156-000005
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

M50 **SANTA FE ENERGY** **UST** **U004266321**
West **11651 TELEGRAPH RD** **N/A**
1/8-1/4 **SANTA FE SPRINGS, CA 90670**
0.242 mi.
1277 ft. **Site 5 of 7 in cluster M**

Relative:
Higher

Actual:
134 ft.

UST:
Facility ID: Not reported
Permitting Agency: Santa Fe Springs Fire-Rescue
Latitude: 33.94695
Longitude: -118.08433

M51 **SANTA FE ENERGY, INC.** **LUST** **S100947392**
West **11651 TELEGRAPH RD** **HAZNET** **N/A**
1/8-1/4 **SANTA FE SPGS, CA 90670** **HIST CORTESE**
0.242 mi.
1277 ft. **Site 6 of 7 in cluster M**

Relative:
Higher

Actual:
134 ft.

LUST:
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603703176
Global Id: T0603703176
Latitude: 33.946942
Longitude: -118.084326
Status: Completed - Case Closed
Status Date: 01/11/1997
Case Worker: YR
RB Case Number: I-06156
Local Agency: Not reported
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0603703176
Contact Type: Local Agency Caseworker
Contact Name: UNK
Organization Name: R4 UNKNOWN
Address: Not reported
City: R4 UNKNOWN
Email: Not reported
Phone Number: Not reported

Global Id: T0603703176
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603703176
Action Type: Other
Date: 07/03/1991
Action: Leak Reported

SANTA FE ENERGY, INC. (Continued) **S100947392**

Global Id: T0603703176
Action Type: Other
Date: 07/03/1991
Action: Leak Discovery

Global Id: T0603703176
Action Type: Other
Date: 07/03/1991
Action: Leak Stopped

LUST:
Global Id: T0603703176
Status: Completed - Case Closed
Status Date: 01/11/1997

Global Id: T0603703176
Status: Open - Case Begin Date
Status Date: 07/03/1991

Global Id: T0603703176
Status: Open - Remediation
Status Date: 04/23/1992

Global Id: T0603703176
Status: Open - Site Assessment
Status Date: 07/18/1991

HAZNET:
envid: S100947392
Year: 2016
GEPAID: CAC002871469
Contact: ANSELMO TOPETE
Telephone: 3106392227
Mailing Name: Not reported
Mailing Address: 11651 TELEGRAPH RD
Mailing City,St,Zip: SANTA FE SPGS, CA 906703656
Gen County: Los Angeles
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 3.78
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-06156

M52 **SERVICE STATION 5435** **HIST UST** **U001565139**
West **11651 TELEGRAPH** **N/A**
1/8-1/4 **SANTA FE SPRINGS, CA 90670**
0.242 mi.
1277 ft. **Site 7 of 7 in cluster M**

Relative:
Higher

Actual:
134 ft.

HIST UST:

File Number:	000290C6
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000290C6.pdf
Region:	STATE
Facility ID:	00000008019
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	JACK K MARTIN
Telephone:	2136998611
Owner Name:	UNION OIL COMPANY OF CALIFORNI
Owner Address:	3701 WILSHIRE BOULEVARD-SUITE
Owner City,St,Zip:	LOS ANGELES, CA 90010
Total Tanks:	0004
Tank Num:	001
Container Num:	5435-4
Year Installed:	1965
Tank Capacity:	00000280
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	002
Container Num:	5435-3
Year Installed:	1981
Tank Capacity:	00009730
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	003
Container Num:	5435-2
Year Installed:	1983
Tank Capacity:	00011763
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	004
Container Num:	5435-1
Year Installed:	1983
Tank Capacity:	00011763
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test

Click here for Geo Tracker PDF:

N53 **STATEFARM PROPERTY** **CPS-SLIC** **S106717765**
ENE **GEARY AVE** **N/A**
1/4-1/2 **SANTA FE SPRINGS, CA 90670**
0.257 mi.
1358 ft. **Site 1 of 3 in cluster N**

Relative:
Higher

Actual:
151 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	01/31/2000
Global Id:	SLT43584582
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.948822
Longitude:	-118.074004
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	0666
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

N54 **STATE FARM INSURANCE** **CPS-SLIC** **S105675919**
ENE **GEARY AVE** **CHMIRS** **N/A**
1/4-1/2 **SANTA FE SPRINGS, CA 90670**
0.257 mi.
1358 ft. **Site 2 of 3 in cluster N**

Relative:
Higher

Actual:
151 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	01/28/1998
Global Id:	SLT43332330
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.948822
Longitude:	-118.074004
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	0517
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

CHMIRS:

OES Incident Number:	1-1836
OES notification:	03/28/2001
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported

STATE FARM INSURANCE (Continued) **S105675919**

Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	storm drain
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Western Parcel Express
Incident Date:	3/28/200112:00:00 AM
Admin Agency:	Santa Fe Springs Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Merchant/Business
E Date:	Not reported
Substance:	diesel fuel
Gallons:	5
Unknown:	0.000000
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported

STATE FARM INSURANCE (Continued) **S105675919**

Fatals: Not reported
Comments: Not reported
Description: Tractor trailer ran over a piece of metal and ruptured the fuel line. A minimal amount went into the storm drain. It is in the process of being cleaned up by a contractor.

N55 **PEDCO** **LUST** **S110275288**
ENE **9911 NORWALK** **N/A**
1/4-1/2 **SANTA FE SPRINGS, CA 90670**
0.284 mi.
1498 ft. **Site 3 of 3 in cluster N**

Relative: Higher
Actual: 152 ft.

LUST:
Lead Agency: SANTA FE SPRINGS, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000001907
Global Id: T10000001907
Latitude: 33.948372
Longitude: -118.073232
Status: Completed - Case Closed
Status Date: 07/13/2010
Case Worker: BTB
RB Case Number: Not reported
Local Agency: SANTA FE SPRINGS, CITY OF
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Not reported
Potential Contaminants of Concern: Diesel, Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

LUST:
Global Id: T10000001907
Contact Type: Local Agency Caseworker
Contact Name: BRENDA TEN BRUGGENCATE
Organization Name: SANTA FE SPRINGS, CITY OF
Address: 11300 GREENSTONE AV
City: SANTA FE SPRINGS
Email: brendanelson@santafesprings.org
Phone Number: 5629063812

LUST:
Global Id: T10000001907
Action Type: ENFORCEMENT
Date: 03/24/2010
Action: Letter - Notice

Global Id: T10000001907
Action Type: ENFORCEMENT
Date: 07/07/2010
Action: Closure/No Further Action Letter

Global Id: T10000001907
Action Type: ENFORCEMENT
Date: 05/19/2010
Action: Letter - Notice

Global Id: T10000001907

PEDCO (Continued) **S110275288**

Action Type: REMEDIATION
Date: 03/01/2010
Action: Excavation

LUST:
Global Id: T10000001907
Status: Completed - Case Closed
Status Date: 07/13/2010

Global Id: T10000001907
Status: Open - Case Begin Date
Status Date: 03/24/2010

Global Id: T10000001907
Status: Open - Site Assessment
Status Date: 03/24/2010

O56 **UNOCAL - SANTA FE SPRINGS OIL FIELD** **CPS-SLIC** **S106387045**
East **10122 NORWALK** **N/A**
1/4-1/2 **SANTA FE SPRINGS, CA 90670**
0.307 mi.
1620 ft. **Site 1 of 2 in cluster O**

Relative:
Higher

Actual:
149 ft.

CPS-SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 01/01/1965
Global Id: SLT43334332
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 33.947016
Longitude: -118.071725
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 0519
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:
Region: 4
Facility Status: No further action required
SLIC: 0519
Substance: TPH
Staff: Manjulika Chakarbarti

O57 **ATLAS RADIATOR, INCORPORATED** **ENVIROSTOR** **S105662059**
East **10110 NORWALK BLVD** **VCP** **N/A**
1/4-1/2 **SANTA FE SPRINGS, CA 90670** **CHMIRS**
0.313 mi.
1652 ft. **Site 2 of 2 in cluster O**

Relative:
Higher

Actual:
149 ft.

ENVIROSTOR:

Facility ID:	19750080
Status:	No Further Action
Status Date:	04/28/1995
Site Code:	300549
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	2
NPL:	NO
Regulatory Agencies:	DTSC
Lead Agency:	DTSC
Program Manager:	Jess Villamayor
Supervisor:	Philip Chandler
Division Branch:	Cleanup Chatsworth
Assembly:	57
Senate:	32
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	33.94604
Longitude:	-118.0720
APN:	8005-015-032, 8005015032
Past Use:	OIL FIELD, VEHICLE MAINTENANCE
Potential COC:	* Metals - Other Inorganic Solid Waste
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	ATLAS RADIATOR, INC.
Alias Type:	Alternate Name
Alias Name:	8005-015-032
Alias Type:	APN
Alias Name:	8005015032
Alias Type:	APN
Alias Name:	110033616969
Alias Type:	EPA (FRS #)
Alias Name:	300549
Alias Type:	Project Code (Site Code)
Alias Name:	19750080
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	04/11/1995
Comments:	The Department of Toxic Substances Control entered into an Agreement with the Project Proponent to conduct a Preliminary Endangerment Assessment for parcel 1 of the Atla Radiator site. (The property was divided into 2 parcels in April 1995.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	07/15/1996

ATLAS RADIATOR, INCORPORATED (Continued) **S105662059**

Comments:	The completion report entered.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	19750080
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	2
National Priorities List:	NO
Cleanup Oversight Agencies:	DTSC
Lead Agency:	DTSC
Lead Agency Description:	* DTSC
Project Manager:	Jess Villamayor
Supervisor:	Philip Chandler
Division Branch:	Cleanup Chatsworth
Site Code:	300549
Assembly:	57
Senate:	32
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	04/28/1995
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	33.94604 / -118.0720
APN:	8005-015-032, 8005015032
Past Use:	OIL FIELD, VEHICLE MAINTENANCE
Potential COC:	10034
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	ATLAS RADIATOR, INC.
Alias Type:	Alternate Name
Alias Name:	8005-015-032
Alias Type:	APN
Alias Name:	8005015032
Alias Type:	APN
Alias Name:	110033616969
Alias Type:	EPA (FRS #)
Alias Name:	300549
Alias Type:	Project Code (Site Code)
Alias Name:	19750080
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	04/11/1995

ATLAS RADIATOR, INCORPORATED (Continued) **S105662059**

Comments: The Department of Toxic Substances Control entered into an Agreement with the Project Proponent to conduct a Preliminary Endangerment Assessment for parcel 1 of the Atla Radiator site. (The property was divided into 2 parcels in April 1995.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/15/1996
Comments: The completion report entered.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CHMIRS:

OES Incident Number:	9-1641
OES notification:	04/14/1999
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	storm drain
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported

ATLAS RADIATOR, INCORPORATED (Continued) **S105662059**

Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1999
Agency:	Atlas Radiator
Incident Date:	4/14/199912:00:00 AM
Admin Agency:	Santa Fe Springs Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Merchant/Business
E Date:	Not reported
Substance:	"filter cake" -compressed dirt
Gallons:	30
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	There was rain water on top of the "filter cake - compressed dirt", when they took the cover off the filter cake, the rain water went into the storm drain. Unknown where the storm drain goes.

P58 **CHEVRON #9-5306** **LUST** **S102427289**
SE **12155 TELEGRAPH RD** **N/A**
1/4-1/2 **SANTA FE SPRINGS, CA 90670**
0.344 mi.
1815 ft. **Site 1 of 2 in cluster P**

Relative: LUST REG 4:
Higher

Actual: Region:	4	
142 ft. Regional Board:	04	
County:	Los Angeles	
Facility Id:	I-01120A	
Status:	Case Closed	
Substance:	Hydrocarbons	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Excavate and Dispose
Global ID:	T0603702757	
W Global ID:	Not reported	
Staff:	NC	
Local Agency:	19049	
Cross Street:	NORWALK BLVD	
Enforcement Type:	CLOS	

CHEVRON #9-5306 (Continued) **S102427289**

Date Leak Discovered:	9/27/1991	
Date Leak First Reported:		6/23/1999
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	10/27/1998	
Date Case Last Changed on Database:		8/19/2002
Date the Case was Closed:		4/5/2004
How Leak Discovered:	Subsurface Monitoring	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1584.9727987200005659595611366
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		8/29/2000
Preliminary Site Assessment Began:		8/29/2000
Pollution Characterization Began:		11/19/2001
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		8/29/2000
Historical Max MTBE Date:		5/14/2002
Hist Max MTBE Conc in Groundwater:		670
Hist Max MTBE Conc in Soil:		620
Significant Interim Remedial Action Taken:		Unknown
GW Qualifier:	=	
Soil Qualifier:	=	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	MR. Y. M. TUAN	
RP Address:	18350 MT. LANGLEY, #105	
Program:	LUST	
Lat/Long:	33.9425597 / -1	
Local Agency Staff:	UNK	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	CITY OF SFS FD HAS REQUESTED AN ADDITIONAL SITE ASSESSMENT BY 7/7/99 (CORRESPONDENCE DATED 6/7/99)	
Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	I-01120	
Status:	Case Closed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603702756	
W Global ID:	Not reported	
Staff:	UNK	

CHEVRON #9-5306 (Continued) **S102427289**

Local Agency:	19049	
Cross Street:	NORWALK BLVD	
Enforcement Type:	Not reported	
Date Leak Discovered:	9/27/1991	
Date Leak First Reported:		9/30/1991
Date Leak Record Entered:	12/19/1991	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	9/27/1991	
Date Case Last Changed on Database:		4/7/1993
Date the Case was Closed:		7/17/1996
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	MCCULLOGH, RANDY	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1584.9727987200005659595611366
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		9/30/1991
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	CHEVRON USA INC.	
RP Address:	P.O. BOX 2833, LA HABRA CA 90632-2833	
Program:	LUST	
Lat/Long:	33.9425597 / -1	
Local Agency Staff:	UNK	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	CONTAMINATED SOIL DISCOVERED DURING BORING LDI SITE ASSESSMENT. POSSIBLY LEAK FROM AN OLD OIL LINE THAT RUN UNDERNEATH THE STATION.	

P59 **CHEVRON #9-5306** **LUST** **S103955971**
SE **12155 TELEGRAPH RD** **HIST CORTESE** **N/A**
1/4-1/2 **SANTA FE SPRINGS, CA 90670**
0.344 mi.
1815 ft. **Site 2 of 2 in cluster P**

Relative: LUST:
Higher

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702757
Global Id:	T0603702757

Actual:
142 ft.

CHEVRON #9-5306 (Continued) **S103955971**

Latitude:	33.9425597
Longitude:	-118.0741252
Status:	Completed - Case Closed
Status Date:	04/05/2004
Case Worker:	NC
RB Case Number:	I-01120A
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

LUST:

Global Id:	T0603702757
Contact Type:	Regional Board Caseworker
Contact Name:	NOMAN CHOWDHURY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 WEST 4TH STREET, SUITE 200
City:	LOS ANGELES
Email:	nchowdhury@waterboards.ca.gov
Phone Number:	2135766704

Global Id:	T0603702757
Contact Type:	Local Agency Caseworker
Contact Name:	UNK
Organization Name:	R4 UNKNOWN
Address:	Not reported
City:	R4 UNKNOWN
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0603702757
Action Type:	Other
Date:	06/23/1999
Action:	Leak Reported

Global Id:	T0603702757
Action Type:	ENFORCEMENT
Date:	03/18/2004
Action:	Site Visit / Inspection / Sampling

Global Id:	T0603702757
Action Type:	ENFORCEMENT
Date:	01/18/2004
Action:	Site Visit / Inspection / Sampling

Global Id:	T0603702757
Action Type:	RESPONSE
Date:	01/15/2004
Action:	Monitoring Report - Quarterly

Global Id:	T0603702757
Action Type:	RESPONSE
Date:	10/15/2002
Action:	Monitoring Report - Quarterly

CHEVRON #9-5306 (Continued) **S103955971**

Global Id: T0603702757
Action Type: ENFORCEMENT
Date: 03/22/2004
Action: Notification - Preclosure

Global Id: T0603702757
Action Type: ENFORCEMENT
Date: 02/27/2003
Action: 13267 Requirement

Global Id: T0603702757
Action Type: RESPONSE
Date: 06/04/2002
Action: Soil and Water Investigation Report

Global Id: T0603702757
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702757
Action Type: RESPONSE
Date: 01/15/2004
Action: Soil and Water Investigation Report

Global Id: T0603702757
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702757
Action Type: RESPONSE
Date: 07/15/2003
Action: Interim Remedial Action Plan

Global Id: T0603702757
Action Type: RESPONSE
Date: 10/15/2003
Action: Soil and Water Investigation Report

Global Id: T0603702757
Action Type: RESPONSE
Date: 07/15/2003
Action: Soil and Water Investigation Workplan

Global Id: T0603702757
Action Type: Other
Date: 09/27/1991
Action: Leak Discovery

Global Id: T0603702757
Action Type: RESPONSE
Date: 07/15/2003
Action: Soil and Water Investigation Report

Global Id: T0603702757
Action Type: RESPONSE

CHEVRON #9-5306 (Continued) **S103955971**

Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702757
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702757
Action Type: ENFORCEMENT
Date: 04/05/2004
Action: Closure/No Further Action Letter

Global Id: T0603702757
Action Type: Other
Date: 10/27/1998
Action: Leak Stopped

Global Id: T0603702757
Action Type: ENFORCEMENT
Date: 11/19/2001
Action: Staff Letter

LUST:
Global Id: T0603702757
Status: Completed - Case Closed
Status Date: 04/05/2004

Global Id: T0603702757
Status: Open - Case Begin Date
Status Date: 09/27/1991

Global Id: T0603702757
Status: Open - Site Assessment
Status Date: 08/29/2000

Global Id: T0603702757
Status: Open - Site Assessment
Status Date: 11/19/2001

Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702756
Global Id: T0603702756
Latitude: 33.9423249
Longitude: -118.0737364
Status: Completed - Case Closed
Status Date: 07/17/1996
Case Worker: YR
RB Case Number: I-01120
Local Agency: Not reported
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

CHEVRON #9-5306 (Continued) **S103955971**

LUST:
Global Id: T0603702756
Contact Type: Local Agency Caseworker
Contact Name: UNK
Organization Name: R4 UNKNOWN
Address: Not reported
City: R4 UNKNOWN
Email: Not reported
Phone Number: Not reported

Global Id: T0603702756
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603702756
Action Type: Other
Date: 09/30/1991
Action: Leak Reported

Global Id: T0603702756
Action Type: Other
Date: 09/27/1991
Action: Leak Discovery

Global Id: T0603702756
Action Type: Other
Date: 09/27/1991
Action: Leak Stopped

LUST:
Global Id: T0603702756
Status: Completed - Case Closed
Status Date: 07/17/1996

Global Id: T0603702756
Status: Open - Case Begin Date
Status Date: 09/27/1991

Global Id: T0603702756
Status: Open - Site Assessment
Status Date: 09/30/1991

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-01120

CHEVRON #9-5306 (Continued) **S103955971**

Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-01120A

60
NW
1/4-1/2
0.346 mi.
1825 ft.

SANTA FE SPRINGS ATHLETIC FIELDS
PIONEER/JERSEY AVENUE
SANTA FE SPRINGS, CA 90670

ENVIROSTOR **S107737277**
VCP **N/A**

Relative:
Higher

Actual:
135 ft.

ENVIROSTOR:
Facility ID: 19790005
Status: Certified / Operation & Maintenance
Status Date: 04/20/2006
Site Code: 304459
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 7.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Amit Pathak
Supervisor: Yolanda Garza
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 57
Senate: 32
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.9537
Longitude: -118.0826
APN: 8005-001-906
Past Use: RECREATION SERVICES
Potential COC: Lead Methane TPH-diesel
Confirmed COC: Lead Methane TPH-diesel
Potential Description: SOIL
Alias Name: JERSEY ATHLETIC PARK
Alias Type: Alternate Name
Alias Name: LITTLE LAKE CITY ELEMENTARY SCHOOL DIST.
Alias Type: Alternate Name
Alias Name: LITTLE LAKE CITY PARK
Alias Type: Alternate Name
Alias Name: SANTA FE SPRINGS ATHLETIC FIELDS
Alias Type: Alternate Name
Alias Name: SANTA FE SPRINGS ATHLETIC PARK
Alias Type: Alternate Name
Alias Name: 8005-001-906
Alias Type: APN
Alias Name: 110033609959
Alias Type: EPA (FRS #)
Alias Name: 301056
Alias Type: Project Code (Site Code)
Alias Name: 304459
Alias Type: Project Code (Site Code)
Alias Name: 19790005
Alias Type: Envirostor ID Number

SANTA FE SPRINGS ATHLETIC FIELDS (Continued) **S107737277**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	05/30/2007
Comments:	DTSC concurred with the information in the report
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	05/31/2007
Comments:	DTSC concurred with the information in the report
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	05/22/2008
Comments:	DTSC approved the operation and maintenance report
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	07/24/2008
Comments:	DTSC approved the Operation and Maintenance report provided DTSC comments are incorporated in future field work/reports.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	05/21/2009
Comments:	DTSC concurs with the O&M Report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	07/28/2009
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	05/10/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	10/21/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	02/14/2014
Comments:	Not reported
Completed Area Name:	PROJECT WIDE

SANTA FE SPRINGS ATHLETIC FIELDS (Continued) **S107737277**

Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/30/2014
Comments: Concurred with comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/25/2016
Comments: Concurred with the Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 12/20/2016
Comments: Had a Site visit on December 13, 2016.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/16/2018
Comments: Self Inspection and Certification Letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 03/14/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 06/14/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 05/26/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/30/2002
Comments: Deemed accepted on 9/30/05

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 04/18/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 07/27/2004

SANTA FE SPRINGS ATHLETIC FIELDS (Continued) **S107737277**

Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 03/18/2005
Comments: Accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 03/18/2005
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/13/2005
Comments: Accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Deed/LUR Enforcement & Implementation Plan
Completed Date: 03/16/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/06/2006
Comments: Accepted with some comments that need to be addressed in future field works/reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 06/27/2006
Comments: with comments to be addressed. No crevision of the document is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 08/07/2006
Comments: Accepted with some comments

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 03/22/2007
Comments: DTSC concurred with the information in the report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 07/12/2007
Comments: DTSC concurred with the information presented in the Operation and

SANTA FE SPRINGS ATHLETIC FIELDS (Continued) **S107737277**

Maintenance report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/31/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 10/04/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 02/16/2012
Comments: First Collection Letter Inv# 05SM1916, 07SM2025, 10SM0657, 10SM0920 and 10SM3167.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 10/22/2012
Comments: The Letter was sent to the City for resuming the operation and maintenance activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/22/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/24/2015
Comments: Annual Cost Estimate emailed and mailed to BP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/26/2016
Comments: Annual Cost Estimate letter, dated 9/26/16, sent to RP via email and regular mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/06/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/04/2018

SANTA FE SPRINGS ATHLETIC FIELDS (Continued) **S107737277**

Comments: FY 1819 Estimate: $3,298

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Report
Schedule Due Date: 06/14/2019
Schedule Revised Date: Not reported

VCP:
Facility ID: 19790005
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 7.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Amit Pathak
Supervisor: Yolanda Garza
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304459
Assembly: 57
Senate: 32
Special Programs Code: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 04/20/2006
Restricted Use: NO
Funding: School District
Lat/Long: 33.9537 / -118.0826
APN: 8005-001-906
Past Use: RECREATION SERVICES
Potential COC: 30013, 30015, 30024
Confirmed COC: 30013,30015,30024
Potential Description: SOIL
Alias Name: JERSEY ATHLETIC PARK
Alias Type: Alternate Name
Alias Name: LITTLE LAKE CITY ELEMENTARY SCHOOL DIST.
Alias Type: Alternate Name
Alias Name: LITTLE LAKE CITY PARK
Alias Type: Alternate Name
Alias Name: SANTA FE SPRINGS ATHLETIC FIELDS
Alias Type: Alternate Name
Alias Name: SANTA FE SPRINGS ATHLETIC PARK
Alias Type: Alternate Name
Alias Name: 8005-001-906
Alias Type: APN
Alias Name: 110033609959
Alias Type: EPA (FRS #)
Alias Name: 301056
Alias Type: Project Code (Site Code)
Alias Name: 304459
Alias Type: Project Code (Site Code)

SANTA FE SPRINGS ATHLETIC FIELDS (Continued) **S107737277**

Alias Name: 19790005
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/30/2007
Comments: DTSC concurred with the information in the report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/31/2007
Comments: DTSC concurred with the information in the report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/22/2008
Comments: DTSC approved the operation and maintenance report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 07/24/2008
Comments: DTSC approved the Operation and Maintenance report provided DTSC comments are incorporated in future field work/reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/21/2009
Comments: DTSC concurs with the O&M Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 07/28/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/10/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 10/21/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/14/2014
Comments: Not reported

SANTA FE SPRINGS ATHLETIC FIELDS (Continued) **S107737277**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/30/2014
Comments: Concurred with comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/25/2016
Comments: Concurred with the Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 12/20/2016
Comments: Had a Site visit on December 13, 2016.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/16/2018
Comments: Self Inspection and Certification Letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 03/14/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 06/14/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 05/26/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/30/2002
Comments: Deemed accepted on 9/30/05

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 04/18/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan

SANTA FE SPRINGS ATHLETIC FIELDS (Continued) **S107737277**

Completed Date: 07/27/2004
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 03/18/2005
Comments: Accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 03/18/2005
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/13/2005
Comments: Accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Deed/LUR Enforcement & Implementation Plan
Completed Date: 03/16/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/06/2006
Comments: Accepted with some comments that need to be addressed in future field works/reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 06/27/2006
Comments: with comments to be addressed. No crevision of the document is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 08/07/2006
Comments: Accepted with some comments

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 03/22/2007
Comments: DTSC concurred with the information in the report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 07/12/2007

SANTA FE SPRINGS ATHLETIC FIELDS (Continued) **S107737277**

Comments:	DTSC concurred with the information presented in the Operation and Maintenance report
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	08/31/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	10/04/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	02/16/2012
Comments:	First Collection Letter Inv# 05SM1916, 07SM2025, 10SM0657, 10SM0920 and 10SM3167.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	10/22/2012
Comments:	The Letter was sent to the City for resuming the operation and maintenance activities.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	08/22/2014
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/24/2015
Comments:	Annual Cost Estimate emailed and mailed to BP.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/26/2016
Comments:	Annual Cost Estimate letter, dated 9/26/16, sent to RP via email and regular mail.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/06/2017
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate

SANTA FE SPRINGS ATHLETIC FIELDS (Continued) **S107737277**

Completed Date:	09/04/2018
Comments:	FY 1819 Estimate: $3,298
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	06/14/2019
Schedule Revised Date:	Not reported

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61 **LAKEVIEW PARK RECREATION FACILITY** **ENVIROSTOR** **S109149574**
WSW **JOSLIN STREET AND JERSEY AVENUE** **SCH** **N/A**
1/4-1/2 **SANTA FE SPRINGS, CA 90670**
0.355 mi.
1873 ft.

Relative:
Higher

Actual:
130 ft.

ENVIROSTOR:

Facility ID:	60000908
Status:	Inactive - Needs Evaluation
Status Date:	02/10/2009
Site Code:	304605
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	1
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Amit Pathak
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	57
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.944
Longitude:	-118.0867
APN:	NONE SPECIFIED
Past Use:	OIL FIELD
Potential COC:	Benzene Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas TPH-JET FUEL TPH-MOTOR OIL Vinyl chloride
Confirmed COC:	30019-NO 30024-NO 30025-NO 3002501-NO 3002502-NO 30028-NO 30003-NO
Potential Description:	SOIL, SV
Alias Name:	304605
Alias Type:	Project Code (Site Code)
Alias Name:	60000908
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	06/25/2008
Comments:	DTSC issued a PEA required determination based on the Phase I report

LAKEVIEW PARK RECREATION FACILITY (Continued) **S109149574**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	60000908
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Amit Pathak
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304605
Assembly:	57
Senate:	32
Special Program Status:	Not reported
Status:	Inactive - Needs Evaluation
Status Date:	02/10/2009
Restricted Use:	NO
Funding:	School District
Latitude:	33.944
Longitude:	-118.0867
APN:	NONE SPECIFIED
Past Use:	OIL FIELD
Potential COC:	Benzene, Polynuclear aromatic hydrocarbons (PAHs, TPH-diesel, TPH-gas, TPH-JET FUEL, TPH-MOTOR OIL, Vinyl chloride
Confirmed COC:	30019-NO, 30024-NO, 30025-NO, 3002501-NO, 3002502-NO, 30028-NO, 30003-NO
Potential Description:	SOIL, SV
Alias Name:	304605
Alias Type:	Project Code (Site Code)
Alias Name:	60000908
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	06/25/2008
Comments:	DTSC issued a PEA required determination based on the Phase I report

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported

LAKEVIEW PARK RECREATION FACILITY (Continued) **S109149574**

Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Q62 **SHAMROCK TIRE & CHROME** **SEMS-ARCHIVE** **1003878952**
ESE **10332 S NORWALK BLVD** **CAD981419203**
1/4-1/2 **SANTA FE SPRINGS, CA 90670**
0.363 mi.
1915 ft. **Site 1 of 2 in cluster Q**

Relative:
Higher

Actual:
143 ft.

SEMS Archive:
Site ID: 0902417
EPA ID: CAD981419203
Cong District: 33
FIPS Code: 06037
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information
Latitude: 33.941667
Longitude: -118.071667

SEMS Archive Detail:
Region: 09
Site ID: 0902417
EPA ID: CAD981419203
Site Name: SHAMROCK TIRE & CHROME
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1987-09-01 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0902417
EPA ID: CAD981419203
Site Name: SHAMROCK TIRE & CHROME
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1986-06-01 04:00:00
Finish Date: 1986-06-01 04:00:00
Qual: Not reported
Current Action Lead: St Perf

Region: 09
Site ID: 0902417
EPA ID: CAD981419203
Site Name: SHAMROCK TIRE & CHROME

SHAMROCK TIRE & CHROME (Continued) **1003878952**

NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1986-06-01 04:00:00
Finish Date:	1987-09-01 04:00:00
Qual:	N
Current Action Lead:	St Perf

Q63 **SHAMROCK TIRE & WHEEL** **ENVIROSTOR** **S105026453**
ESE **10332 SOUTH NORWALK BOULEVARD** **HIST CORTESE** **N/A**
1/4-1/2 **SANTA FE SPRINGS, CA 90670**
0.363 mi.
1915 ft. **Site 2 of 2 in cluster Q**

Relative:
Higher

Actual:
143 ft.

ENVIROSTOR:

Facility ID:	19340459
Status:	Refer: Other Agency
Status Date:	08/15/1995
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Chatsworth
Assembly:	Not reported
Senate:	Not reported
Special Program:	* Site Char & Assess Grant (CERCLA 104)
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.94308
Longitude:	-118.0727
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	* Metals - Sludge * ORGANIC LIQUIDS WITH METALS * DETERGENT & SOAP * UNSPECIFIED ACID SOLUTION * UNSPECIFIED ALKALINE SOLUTIONS * UNSPECIFIED AQUEOUS SOLUTION * UNSPECIFIED SLUDGE WASTE Chromium VI Cyanide (free
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	JOHNNY'S SPEED & CHROME SHOP
Alias Type:	Alternate Name
Alias Name:	M & J PLATING
Alias Type:	Alternate Name
Alias Name:	MARTIN'S TIRE & CHROME CO
Alias Type:	Alternate Name
Alias Name:	SHAMROCK TIRE & CHROME
Alias Type:	Alternate Name
Alias Name:	CAD981419203
Alias Type:	CERCLIS ID

SHAMROCK TIRE & WHEEL (Continued) **S105026453**

Alias Name: 19340459
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 12/08/1994
Comments: NFA FOR DTSC DUE TO GENERATOR STATUS AND COUNTY INVOLVEMENT.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/06/1987
Comments: SITE SCREENING DONE CERCLIS SITE

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 11/18/1980
Comments: FACILITY IDENTIFIED FAC ID LACE OPER UNKNOWN CO ENGR. CHROME PLATING,SPENT PLATING LIQ & RINSE WATER ONLY WASTE. NOV FOR SPILLAGE ISSUED 78-80

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: CALSI
Reg Id: 19340459

R64 **COPLEY SANTA FE SPRINGS NORWALK NO 1** **RCRA-SQG 1000395133**
NE **9750 NORWALK BLVD** **LUST CAD981428493**
1/4-1/2 **SANTA FE SPRINGS, CA 90670** **FINDS**
0.387 mi. **ECHO**
2041 ft. **Site 1 of 2 in cluster R**

Relative:
Higher

Actual:
152 ft.

RCRA-SQG:
Date form received by agency: 04/19/1995
Facility name: COPLEY SANTA FE SPRINGS NORWALK NO 1
Facility address: 9750 NORWALK BLVD
SANTA FE SPRINGS, CA 90670
EPA ID: CAD981428493
Contact: LEE BEARD
Contact address: 5801 EASTERN AVE STE 100
LOS ANGELES, CA 90040
Contact country: US
Contact telephone: 213-724-2246
Contact email: Not reported

COPLEY SANTA FE SPRINGS NORWALK NO 1 (Continued) **1000395133**

EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: COPLEY SANTA FE SPRINGS NORWALK NO 1
Owner/operator address: 5801 EASTERN AVE STE 100
LOS ANGELES, CA 90040
Owner/operator country: Not reported
Owner/operator telephone: 213-724-2246
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

LUST REG 4:
Region: 4
Regional Board: 04

COPLEY SANTA FE SPRINGS NORWALK NO 1 (Continued) **1000395133**

County:	Los Angeles	
Facility Id:	I-00229	
Status:	Case Closed	
Substance:	Diesel	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603702689	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19049	
Cross Street:	TELEGRAPH	
Enforcement Type:	Not reported	
Date Leak Discovered:	11/24/1987	
Date Leak First Reported:		11/28/1989
Date Leak Record Entered:	12/5/1989	
Date Confirmation Began:	11/14/1989	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		6/4/1997
Date the Case was Closed:		8/15/1996
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1743.944716979600847673931 9959
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		10/16/1987
Preliminary Site Assessment Began:		11/23/1987
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		1/7/1988
Remedial Action Underway:		3/15/1989
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	TRAMMEL CROW	
RP Address:	5801 S EASTERN AVE., SUITE 100 LOS ANGELES CA 90040	
Program:	LUST	
Lat/Long:	33.9507565 / -1	
Local Agency Staff:	UNK	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	06/04/97 - RECEIVED LOC LETTER	

COPLEY SANTA FE SPRINGS NORWALK NO 1 (Continued) **1000395133**

FINDS:

Registry ID: 110002702175

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000395133
Registry ID: 110002702175
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002702175

R65 **SANTA FE TRUCK TERMINAL** **LUST** **S103677613**
NE **9750 NORWALK** **HIST UST** **N/A**
1/4-1/2 **SANTA FE SPRINGS, CA 90670** **HIST CORTESE**
0.387 mi.
2041 ft. **Site 2 of 2 in cluster R**

Relative: Higher
Actual: 152 ft.

LUST:
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702689
Global Id: T0603702689
Latitude: 33.9501013
Longitude: -118.0726432
Status: Completed - Case Closed
Status Date: 08/15/1996
Case Worker: YR
RB Case Number: I-00229
Local Agency: Not reported
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0603702689
Contact Type: Local Agency Caseworker
Contact Name: UNK
Organization Name: R4 UNKNOWN
Address: Not reported
City: R4 UNKNOWN
Email: Not reported
Phone Number: Not reported

Global Id: T0603702689
Contact Type: Regional Board Caseworker

SANTA FE TRUCK TERMINAL (Continued) **S103677613**

Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603702689
Action Type: Other
Date: 11/28/1989
Action: Leak Reported

Global Id: T0603702689
Action Type: Other
Date: 11/24/1987
Action: Leak Discovery

LUST:
Global Id: T0603702689
Status: Completed - Case Closed
Status Date: 08/15/1996

Global Id: T0603702689
Status: Open - Case Begin Date
Status Date: 10/16/1987

Global Id: T0603702689
Status: Open - Remediation
Status Date: 01/07/1988

Global Id: T0603702689
Status: Open - Remediation
Status Date: 03/15/1989

Global Id: T0603702689
Status: Open - Site Assessment
Status Date: 10/16/1987

Global Id: T0603702689
Status: Open - Site Assessment
Status Date: 11/23/1987

Global Id: T0603702689
Status: Open - Site Assessment
Status Date: 11/14/1989

HIST UST:
File Number: 00027F1D
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027F1D.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported

SANTA FE TRUCK TERMINAL (Continued) **S103677613**

Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-00229

66
SE
1/4-1/2
0.409 mi.
2158 ft.

WOHL PROPETY GROUP INC-ALEXANDER BELL **CPS-SLIC** **S106483398**
TELEGRAPH RD & NORWALK BLVD **N/A**
SANTA FE SPRINGS, CA

Relative:
Higher

Actual:
143 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	01/01/1965
Global Id:	SL0002041J00
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.941975
Longitude:	-118.072645
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

67
SE
1/4-1/2
0.463 mi.
2446 ft.

HERITAGE CORPORATE CENTER
10445 NORWALK BLVD S
SANTA FE SPRINGS, CA 90670

LUST **S101298007**
HIST CORTESE **N/A**

Relative:
Higher

Actual:
141 ft.

LUST:

Lead Agency:	SANTA FE SPRINGS, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603703235
Global Id:	T0603703235
Latitude:	33.9406367
Longitude:	-118.0727451
Status:	Completed - Case Closed
Status Date:	06/18/1991
Case Worker:	Not reported
RB Case Number:	I-06587
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0603703235
Contact Type:	Local Agency Caseworker
Contact Name:	UNK
Organization Name:	R4 UNKNOWN
Address:	Not reported
City:	R4 UNKNOWN
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0603703235
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0603703235
Action Type:	Other
Date:	04/23/1990
Action:	Leak Reported

Global Id:	T0603703235
Action Type:	Other
Date:	02/09/1987
Action:	Leak Discovery

Global Id:	T0603703235
Action Type:	Other
Date:	02/09/1987
Action:	Leak Stopped

HERITAGE CORPORATE CENTER (Continued) **S101298007**

LUST:
Global Id: T0603703235
Status: Completed - Case Closed
Status Date: 06/18/1991

Global Id: T0603703235
Status: Open - Case Begin Date
Status Date: 02/09/1987

Global Id: T0603703235
Status: Open - Site Assessment
Status Date: 04/23/1990

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	I-06587	
Status:	Case Closed	
Substance:	Diesel	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603703235	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19049	
Cross Street:	TELEGRAPH RD.	
Enforcement Type:	Not reported	
Date Leak Discovered:	2/9/1987	
Date Leak First Reported:		4/23/1990
Date Leak Record Entered:	6/10/1990	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	2/9/1987	
Date Case Last Changed on Database:		6/18/1991
Date the Case was Closed:		6/18/1991
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	JACHETTA, JIM	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		2327.6829140947058834207730 73
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		4/23/1990
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported

HERITAGE CORPORATE CENTER (Continued) **S101298007**

Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: O'DONNELL ARMSTRONG PARTNERS
RP Address: P.O. BOX 19583, IRVINE, CA 92713-9583
Program: LUST
Lat/Long: 33.9406367 / -1
Local Agency Staff: UNK
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: CLOSURE PERMIT NO. 2394B

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-06587

S68 **LOS ANGELES BY-PRODUCTS** **SEMS-ARCHIVE** **1003878804**
NE **9615 S NORWALK BLVD** **CAD980893655**
1/4-1/2 **SANTA FE SPRINGS, CA 90670**
0.475 mi.
2506 ft. **Site 1 of 3 in cluster S**

Relative: **Higher**
Actual: **157 ft.**

SEMS Archive:
Site ID: 0902237
EPA ID: CAD980893655
Cong District: 33
FIPS Code: 06037
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information
Latitude: 33.941667
Longitude: -118.071667

SEMS Archive Detail:
Region: 09
Site ID: 0902237
EPA ID: CAD980893655
Site Name: LOS ANGELES BY-PRODUCTS
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1985-08-01 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09

LOS ANGELES BY-PRODUCTS (Continued) **1003878804**

Site ID:	0902237
EPA ID:	CAD980893655
Site Name:	LOS ANGELES BY-PRODUCTS
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1985-03-01 06:00:00
Finish Date:	1985-03-01 06:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902237
EPA ID:	CAD980893655
Site Name:	LOS ANGELES BY-PRODUCTS
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1985-03-01 06:00:00
Finish Date:	1985-08-01 05:00:00
Qual:	N
Current Action Lead:	St Perf

S69 **L.A. BY-PRODUCTS - SANTA FE SPRINGS - NORWALK LAND** **ENVIROSTOR** **U001565148**
NE **9615 SOUTH NORWALK BLVD** **HIST UST** **N/A**
1/4-1/2 **SANTA FE SPRINGS, CA 90670** **LDS**
0.475 mi. **NPDES**
2506 ft. **Site 2 of 3 in cluster S** **CIWQS**

Relative:
Higher

Actual:
157 ft.

ENVIROSTOR:

Facility ID:	19490147
Status:	No Further Action
Status Date:	01/15/1992
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	7.5
NPL:	NO
Regulatory Agencies:	HWMP
Lead Agency:	HWMP
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Chatsworth
Assembly:	57
Senate:	32
Special Program:	* RCRA 3012 - Past Haz Waste Disp Inven Site
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.95274
Longitude:	-118.0744

L.A. BY-PRODUCTS - SANTA FE SPRINGS - NORWALK LANDFILL (Continued) **U001565148**

APN: 8002015018
Past Use: LANDFILL - DOMESTIC
Potential COC: Methane
Confirmed COC: 30015-NO
Potential Description: SOIL, SV, IA
Alias Name: CARNATION COMPANY DISTRIBUTION CENTER
Alias Type: Alternate Name
Alias Name: NORWALK PIT
Alias Type: Alternate Name
Alias Name: STAR PIPE & SUPPLY (ID FROM LACE)
Alias Type: Alternate Name
Alias Name: STATE PIPE & SUPPLY COMPANY
Alias Type: Alternate Name
Alias Name: 8002015018
Alias Type: APN
Alias Name: 19490147
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/02/1994
Comments: PA CONDUCTED RECOMMENDS NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 11/02/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/29/1980
Comments: FACILITY IDENTIFIED FAC ID LACE

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000068806
Facility Type: Other
Other Type: ON SITE FACILITY
Contact Name: STEVE COURSEY
Telephone: 2137236400
Owner Name: STATE PIPE & SUPPLY CO.

L.A. BY-PRODUCTS - SANTA FE SPRINGS - NORWALK LANDFILL (Continued) **U001565148**

Owner Address:	9615 SOUTH NORWALK BOULEVARD
Owner City,St,Zip:	SANTA FE SPRINGS, CA 90670
Total Tanks:	0002
Tank Num:	001
Container Num:	01
Year Installed:	1979
Tank Capacity:	00010000
Tank Used for:	WASTE
Type of Fuel:	1
Container Construction Thickness:	/4 2
Leak Detection:	Visual, Stock Inventor
Tank Num:	002
Container Num:	02
Year Installed:	1979
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4
Leak Detection:	Visual, Stock Inventor

LDS:

Global Id:	T10000004306
Latitude:	33.95266
Longitude:	-118.0742
Case Type:	Land Disposal Site
Status:	Completed - Case Closed
Status Date:	09/28/2012
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Caseworker:	WY
Local Agency:	Not reported
RB Case Number:	54-154
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Not reported
EDR Link ID:	T10000004306
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

NPDES:

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	4 19C382626
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported

L.A. BY-PRODUCTS - SANTA FE SPRINGS - NORWALK LANDFILL (Continued) **U001565148**

Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	03/02/2018
Operator Name:	Rexford Industrial
Operator Address:	11620 Wilshire Blvd
Operator City:	Los Angeles
Operator State:	California
Operator Zip:	90025

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	4
Regulatory Measure ID:	492843
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 19C382626
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/02/2018
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Rexford Industrial
Discharge Address:	11620 Wilshire Blvd
Discharge City:	Los Angeles
Discharge State:	California
Discharge Zip:	90025
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported

L.A. BY-PRODUCTS - SANTA FE SPRINGS - NORWALK LANDFILL (Continued) **U001565148**

Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Facility Status:	Active
NPDES Number:	CAS000002
Region:	4
Agency Number:	0
Regulatory Measure ID:	492843
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	4 19C382626
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/02/2018
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	11620 Wilshire Blvd
Discharge Name:	Rexford Industrial
Discharge City:	Los Angeles
Discharge State:	California
Discharge Zip:	90025
Status:	Not reported
Status Date:	Not reported

L.A. BY-PRODUCTS - SANTA FE SPRINGS - NORWALK LANDFILL (Continued) **U001565148**

Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	4
Regulatory Measure ID:	492843
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 19C382626
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/02/2018
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Rexford Industrial
Discharge Address:	11620 Wilshire Blvd
Discharge City:	Los Angeles
Discharge State:	California
Discharge Zip:	90025
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported

L.A. BY-PRODUCTS - SANTA FE SPRINGS - NORWALK LANDFILL (Continued) **U001565148**

Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Agency:	Rexford Industrial
Agency Address:	11620 Wilshire Blvd 10000, Los Angeles, CA 90025
Place/Project Type:	Construction - Industrial
SIC/NAICS:	Not reported
Region:	4
Program:	CONSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	4 19C382626
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	03/02/2018
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.952
Longitude:	-118.07278

S70 **L.A. BY PRODUCTS-SANTA FE SPRI** **WMUDS/SWAT** **S103441321**
NE **9615 SOUTH NORWALK BOULVARD** **N/A**
1/4-1/2 **SANTA FE SPRINGS, CA**
0.484 mi.
2557 ft. **Site 3 of 3 in cluster S**

Relative:
Higher

Actual:
157 ft.

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Not reported
Primary Waste:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	54-154
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Not reported
Agency Name:	L.A. BY-PRODUCTS COMPANY
Agency Department:	VICE PRESIDENT
Agency Address:	1810 EAST 25TH STREET
Agency City,St,Zip:	LOS ANGELES 90058
Agency Contact:	C.D. VANGORDEN
Agency Telephone:	Not reported
Land Owner Name:	Not reported
Land Owner Address:	Not reported
Land Owner City,St,Zip:	CA
Land Owner Contact:	Not reported
Land Owner Phone:	Not reported
Region:	4
Facility Type:	Not reported
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	Not reported
Primary SIC:	Not reported
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	L.A. BY-PRODUCTS COMPANY
Threat to Water Quality:	Not reported
Sub Chapter 15:	False
Regional Board Project Officer:	DJP
Number of WMUDS at Facility:	1
Section Range:	02S11W31
RCRA Facility:	Not reported
Waste Discharge Requirements:	Not reported
Self-Monitoring Rept. Frequency:	Not reported
Waste Discharge System ID:	4 190037NUR
Solid Waste Information ID:	Not reported

71
SE
1/4-1/2
0.486 mi.
2567 ft.

HATHAWAY OIL COMPANY
12250 EAST TELEGRAPH ROAD
SANTA FE SPRINGS, CA 90670

ENVIROSTOR **S102860864**
N/A

Relative:
Higher

Actual:
144 ft.

ENVIROSTOR:

Facility ID:	19290186
Status:	Refer: Other Agency
Status Date:	08/31/1995
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Chatsworth
Assembly:	Not reported
Senate:	Not reported
Special Program:	* CERC2
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.94175
Longitude:	-118.0715
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	* OIL/WATER SEPARATION SLUDGE * AQUEOUS SOLUTION WITH TOTAL ORGANIC RESIDUES > 10 * CONTAMINATED SOIL * UNSPECIFIED AQUEOUS SOLUTION * UNSPECIFIED OIL CONTAINING WASTE * WASTE OIL & MIXED OIL * DRILLING MUD * OTHER PESTICIDE CONTAINERS, 30 GALLONS OR MORE * UNSPECIFIED ORGANIC LIQUID MIXTURE
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	COX-WARDMAN OIL FIELD
Alias Type:	Alternate Name
Alias Name:	SUNSET OIL COMPANY
Alias Type:	Alternate Name
Alias Name:	19290186
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	11/17/1980
Comments:	FACILITY IDENTIFIED FAC ID LACE OPER IN THE 1950'S LINE TO SFS WASTEWATER DISPOSAL CO.(LACE
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	03/29/1987
Comments:	SITE SCREENING DONE EVIDENCE OF AN UNLINED POND.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

HATHAWAY OIL COMPANY (Continued) **S102860864**

Completed Document Type:	Site Screening
Completed Date:	10/27/1994
Comments:	DATABASE VERIFICATION PROJECT CONFIRMS NFA FOR DTSC.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	01/12/1994
Comments:	Site visit conducted by Miguel Monroy. Large site with oil extraction wells, secured with fence. No documented use of TCE onsite, no observed release of CERCLA materials or hazardous substances onsite. No visible contamination at time of visit. NFA under crude oil/petroleum exclusion.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	04/21/1988
Comments:	PRELIM ASSESS DONE PA COMPLETE: PAST DISPOSAL OF OIL FIELD BRINES IN MUD LINED SUMP; PAST USE OF CHEM ADDITIVES FOR OIL-BRINE SEPARATION; ANCHOR IMPERIAL PALLET MAY HAVE OPERATED ON SITE. BRINES NOW DISPOSED BY INJECTN; RECOMMEND LOW PRIORITY DHS SI
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

72
SSW
1/4-1/2
0.496 mi.
2618 ft.

LITTLE LAKE CITY SCHOOL D **LUST** **1000591043**
10515 PIONEER **HIST CORTESE** **N/A**
SANTA FE SPRINGS, CA 90670 **LOS ANGELES CO. HMS**

Relative:
Lower

Actual:
123 ft.

LUST:

Lead Agency:	SANTA FE SPRINGS, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603704049
Global Id:	T0603704049
Latitude:	33.9367018
Longitude:	-118.0819356
Status:	Completed - Case Closed
Status Date:	12/16/1992
Case Worker:	Not reported
RB Case Number:	I-13200
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

LITTLE LAKE CITY SCHOOL D (Continued) **1000591043**

Global Id: T0603704049
Contact Type: Local Agency Caseworker
Contact Name: UNK
Organization Name: R4 UNKNOWN
Address: Not reported
City: R4 UNKNOWN
Email: Not reported
Phone Number: Not reported

Global Id: T0603704049
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603704049
Action Type: Other
Date: 10/07/1992
Action: Leak Reported

Global Id: T0603704049
Action Type: Other
Date: 05/28/1992
Action: Leak Discovery

LUST:
Global Id: T0603704049
Status: Completed - Case Closed
Status Date: 12/16/1992

Global Id: T0603704049
Status: Open - Case Begin Date
Status Date: 05/28/1992

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-13200
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603704049
W Global ID: Not reported
Staff: UNK
Local Agency: 19049
Cross Street: Not reported
Enforcement Type: Not reported

LITTLE LAKE CITY SCHOOL D (Continued) **1000591043**

Date Leak Discovered:	5/28/1992	
Date Leak First Reported:		10/7/1992
Date Leak Record Entered:	9/22/1992	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		12/16/1992
Date the Case was Closed:		12/16/1992
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		2083.2570363092930260751449 51
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	LITTLE LAKE CITY SCHOOL DIST.	
RP Address:	10515 S. PIONEER BLVD., SANTA FE SPRINGS, CA 90670	
Program:	LUST	
Lat/Long:	33.9389408 / -1	
Local Agency Staff:	UNK	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	CLOSURE PERMIT NUMBER 8988B	

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-13200

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	012949-013200
Facility Type:	0
Facility Status:	Closed
Area:	1H

LITTLE LAKE CITY SCHOOL D (Continued) **1000591043**

Permit Number: 00004995T
Permit Status: Closed

73
NNW
1/2-1
0.502 mi.
2649 ft.

JERSEY AVENUE ELEMENTARY SCHOOL
9400 JERSEY AVENUE
SANTA FE SPRINGS, CA 90670

ENVIROSTOR SCH **S105754225 N/A**

Relative: Higher

Actual: 137 ft.

ENVIROSTOR:

Facility ID:	19820029
Status:	No Further Action
Status Date:	01/19/2017
Site Code:	304301
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	9.2
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Joe Hwong
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	57
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.9537
Longitude:	-118.0826
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Lead TPH-diesel
Confirmed COC:	NONE SPECIFIED
Potential Description:	SED, SOIL
Alias Name:	JERSEY AVENUE ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	JERSEY ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	LITTLE LAKE CITY SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	LITTLE LAKE CITY SD-JERSEY AVENUE ES
Alias Type:	Alternate Name
Alias Name:	110021510925
Alias Type:	EPA (FRS #)
Alias Name:	304301
Alias Type:	Project Code (Site Code)
Alias Name:	19820029
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	08/27/2002
Comments:	Not reported

JERSEY AVENUE ELEMENTARY SCHOOL (Continued) **S105754225**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 06/18/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 10/29/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 03/27/2002
Comments: Based on its review of the Remedial Investigation report and Addendum, DTSC concluded that further revision of these documents is not necessary provided that District address unresolved comments in the RAW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/02/2001
Comments: Jersey Elem School Remedial Investigation Workplan Fact Sheet #1 for July 2001.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/02/2001
Comments: Jersey Elem. School Update on Investigation Fact Sheet August 2001.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/02/2002
Comments: Provide the community information regarding site status and activities Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 10/05/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 05/09/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/05/2015

JERSEY AVENUE ELEMENTARY SCHOOL (Continued) **S105754225**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/21/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/22/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/23/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/01/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/01/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/01/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/01/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/05/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 01/19/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE

JERSEY AVENUE ELEMENTARY SCHOOL (Continued) **S105754225**

Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 06/29/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/30/2004
Comments: CRU Memo Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 01/14/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Completed Date: 06/18/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 04/06/2016
Comments: Revised FY 15/16 Annual Cost Estimate sent to RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/06/2016
Comments: District sent letter requesting extension of the existing agreement to cover additional construction observation and response activities, if needed, for the upcoming project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/21/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/10/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/23/2015
Comments: Annual Cost Estimate emailed and mailed to BP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

JERSEY AVENUE ELEMENTARY SCHOOL (Continued) **S105754225**

Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	12/04/2017
Comments:	Daily logs closed 7/17/17; Closeout Form 1554 submitted and processed by CRBU on 12/14/17.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	19820029
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	9.2
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Joe Hwong
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304301
Assembly:	57
Senate:	32
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	01/19/2017
Restricted Use:	NO
Funding:	School District
Latitude:	33.9537
Longitude:	-118.0826
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Lead, Lead, TPH-diesel
Confirmed COC:	NONE SPECIFIED
Potential Description:	SED, SOIL
Alias Name:	JERSEY AVENUE ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	JERSEY ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	LITTLE LAKE CITY SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	LITTLE LAKE CITY SD-JERSEY AVENUE ES
Alias Type:	Alternate Name
Alias Name:	110021510925
Alias Type:	EPA (FRS #)
Alias Name:	304301
Alias Type:	Project Code (Site Code)
Alias Name:	19820029

JERSEY AVENUE ELEMENTARY SCHOOL (Continued) **S105754225**

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/27/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 06/18/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 10/29/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 03/27/2002
Comments: Based on its review of the Remedial Investigation report and Addendum, DTSC concluded that further revision of these documents is not necessary provided that District address unresolved comments in the RAW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/02/2001
Comments: Jersey Elem School Remedial Investigation Workplan Fact Sheet #1 for July 2001.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/02/2001
Comments: Jersey Elem. School Update on Investigation Fact Sheet August 2001.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/02/2002
Comments: Provide the community information regarding site status and activities Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 10/05/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

JERSEY AVENUE ELEMENTARY SCHOOL (Continued) **S105754225**

Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 05/09/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/05/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/21/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/22/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/23/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/01/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/01/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/01/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/01/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/05/2016
Comments: Not reported

JERSEY AVENUE ELEMENTARY SCHOOL (Continued) **S105754225**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 01/19/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 06/29/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/30/2004
Comments: CRU Memo Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 01/14/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Completed Date: 06/18/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 04/06/2016
Comments: Revised FY 15/16 Annual Cost Estimate sent to RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/06/2016
Comments: District sent letter requesting extension of the existing agreement to cover additional construction observation and response activities, if needed, for the upcoming project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/21/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/10/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE

JERSEY AVENUE ELEMENTARY SCHOOL (Continued) **S105754225**

Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/23/2015
Comments:	Annual Cost Estimate emailed and mailed to BP.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	12/04/2017
Comments:	Daily logs closed 7/17/17; Closeout Form 1554 submitted and processed by CRBU on 12/14/17.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

74
SE
1/2-1
0.541 mi.
2857 ft.

IMPERIAL ANCHOR PALLET **ENVIROSTOR** **S101480566**
12246 PARK AVENUE **HIST CORTESE** **N/A**
SANTA FE SPRINGS, CA 90670

Relative:
Higher

Actual:
142 ft.

ENVIROSTOR:

Facility ID:	19240002
Status:	Refer: RWQCB
Status Date:	08/21/1995
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Chatsworth
Assembly:	57
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.94058
Longitude:	-118.0710
APN:	8009001053
Past Use:	NONE SPECIFIED
Potential COC:	* LIQUIDS WITH PH <= 2 * OXYGENATED SOLVENTS * CONTAMINATED SOIL * ACID SOLUTION WITHOUT METALS * ALKALINE SOLUTION WITHOUT METALS * Sludge - Paint * UNSPECIFIED ACID SOLUTION * UNSPECIFIED ALKALINE SOLUTIONS * UNSPECIFIED SLUDGE WASTE * ALKALINE SOLUTION 2<PH<12.5, WITH METALS * DRILLING MUD * OTHER PESTICIDE CONTAINERS, 30 GALLONS OR MORE * POLYMERIC RESIN WASTE Cyanide (free

IMPERIAL ANCHOR PALLET (Continued) **S101480566**

Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: ANCHOR LUMBER
Alias Type: Alternate Name
Alias Name: IMPERIAL PALLET
Alias Type: Alternate Name
Alias Name: IMPERIAL WESTERN SURPLUS
Alias Type: Alternate Name
Alias Name: SANTA FE RAILROAD
Alias Type: Alternate Name
Alias Name: 8009001053
Alias Type: APN
Alias Name: 110002653691
Alias Type: EPA (FRS #)
Alias Name: CAD063810634
Alias Type: HWTS Identification Code
Alias Name: 19240002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/01/1995
Comments: NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 09/07/1994
Comments: As informed by McLaren Hart in a letter dated 09/07/94, the City of Santa Fe Springs, Mobil Corp., and McGranahan, Carlson & Company have informed the Oil Field Reclamation Project Executive Committee to develop a former oil production field which inclues the Imperial Anchor Pallet site. The current gw study, soil invetigations and any future soil remediation is under the oversight of RWQCB.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 02/27/1987
Comments: PRELIM ASSESS DONE SI REQ HIGH PRIORITY, LEAKING ABANDONED DRUMS. BARRELS WERE STORED IN SEVERAL LOCATIONS ON THE 40 ACRES NOT CLEANED. A SEPERATE SITE ON NEXT BLOCK HAS PCB CONTM. SIMILAR OPERATION LEAKING DRUMS LOCATED ON THE CORNER OF GARDENER AND WILLIS. OWNER OF LOT: DONALD WARDMAN PHONE (213) 388-5667. THE LAST TENANT WAS IMPERIAL ANCHOR PALLET

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/15/1986
Comments: SITE SCREENING DONE PA REQ HIGH PRIORITY

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/12/1981

IMPERIAL ANCHOR PALLET (Continued) **S101480566**

Comments: FACILITY IDENTIFIED ID'D DURING DRIVE-BY ON ANOTHER SITE FACILITY DRIVE-BY DRUMS STORED ON UNPAVED AREAS-APPEAR TO BE LEAKING W/ A STICKY RESIN TYPE OF MATL. EVIDENCE OF LEAKAGE & SPILLAGE ON- TO GROUND.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: CALSI
Reg Id: 19240002

75
SSE
1/2-1
0.598 mi.
3159 ft.

MOBIL OIL/JALK FEE
10607 NORWALK BOULEVARD
SANTA FE SPRINGS, CA 90670

RESPONSE **S106386948**
ENVIROSTOR **N/A**
CPS-SLIC
LA Co. Site Mitigation

Relative:
Higher

Actual:
138 ft.

RESPONSE:
Facility ID: 19130098
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 1
National Priorities List: NO
Cleanup Oversight Agencies: DTSC
Lead Agency Description: * DTSC
Project Manager: Joseph Cully
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Site Code: 300506
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 57
Senate: 32
Special Program Status: EPA - PASI
Status: Refer: RWQCB
Status Date: 10/19/1998
Restricted Use: NO
Funding: Not Applicable
Latitude: 33.93779
Longitude: -118.0727
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC : * HALOGENATED ORGANIC COMPOUNDS * HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS * ORGANIC LIQUIDS WITH METALS * ORGANIC SOLIDS WITH HALOGENS * OTHER ORGANIC SOLIDS * OXYGENATED SOLVENTS * CONTAMINATED SOIL * UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED SOLVENT MIXTURES * WASTE OIL & MIXED OIL * ORGANIC LIQUIDS (NONSOLVENTS) WITH HALOGENS * UNSPECIFIED ORGANIC LIQUID MIXTURE Lead Mercury and compounds

MOBIL OIL/JALK FEE (Continued) **S106386948**

Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: JALK FEE PROPERTY
Alias Type: Alternate Name
Alias Name: MOBIL FOUNDATION, INC.
Alias Type: Alternate Name
Alias Name: MOBIL OIL CORPORATION
Alias Type: Alternate Name
Alias Name: 110009266016
Alias Type: EPA (FRS #)
Alias Name: 300506
Alias Type: Project Code (Site Code)
Alias Name: 19130098
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 03/06/1995
Comments: The Department entered into a Preliminary Endangerment Assessment Agreement for the "Jalk Fee Property".

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/15/1999
Comments: Completed a Preliminary Assessment for the site. Recommended referral to RWQCB-LA. Preliminary Assessment approved by USEPA. U.S. EPA approved PA which DTSC completed for this site. USEPA determined the site is eligible for an SI.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/23/1996
Comments: The PEA Equivalent documented characterization and cleanup conducted between 1991 and 1996. DTSC determined that based on the data presented, "no further action" is required on the "Boneyard" Mobile/Jalk Fee Site, and the hazardous materials remaining do not constitute a threat to human health or the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/28/1993
Comments: The Department received a notification from PRP alleged that the site’s soil contamination originated from an off-site source, Continental Heat Treating, Inc.. Soil at the site is contaminated with crude oil; heavy metals such as lead, mercury, and zinc; and chlorinated hydrocarbons such as PCE, TCE, and 1,2-DCE. Sample results indicate that the concentration of these contaminants exceeding regulatory limits. Due to the evidence of contamination onsite, the Department recommends a PEA.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported

MOBIL OIL/JALK FEE (Continued) **S106386948**

Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 19130098
Status: Refer: RWQCB
Status Date: 10/19/1998
Site Code: 300506
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 1
NPL: NO
Regulatory Agencies: DTSC
Lead Agency: DTSC
Program Manager: Joseph Cully
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 57
Senate: 32
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 33.93779
Longitude: -118.0727
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * HALOGENATED ORGANIC COMPOUNDS * HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS * ORGANIC LIQUIDS WITH METALS * ORGANIC SOLIDS WITH HALOGENS * OTHER ORGANIC SOLIDS * OXYGENATED SOLVENTS * CONTAMINATED SOIL * UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED SOLVENT MIXTURES * WASTE OIL & MIXED OIL * ORGANIC LIQUIDS (NONSOLVENTS) WITH HALOGENS * UNSPECIFIED ORGANIC LIQUID MIXTURE Lead Mercury and compounds
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: JALK FEE PROPERTY
Alias Type: Alternate Name
Alias Name: MOBIL FOUNDATION, INC.
Alias Type: Alternate Name
Alias Name: MOBIL OIL CORPORATION
Alias Type: Alternate Name
Alias Name: 110009266016
Alias Type: EPA (FRS #)
Alias Name: 300506
Alias Type: Project Code (Site Code)
Alias Name: 19130098
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 03/06/1995

MOBIL OIL/JALK FEE (Continued) **S106386948**

Comments:	The Department entered into a Preliminary Endangerment Assessment Agreement for the "Jalk Fee Property".
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	06/15/1999
Comments:	Completed a Preliminary Assessment for the site. Recommended referral to RWQCB-LA. Preliminary Assessment approved by USEPA. U.S. EPA approved PA which DTSC completed for this site. USEPA determined the site is eligible for an SI.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	12/23/1996
Comments:	The PEA Equivalent documented characterization and cleanup conducted between 1991 and 1996. DTSC determined that based on the data presented, "no further action" is required on the "Boneyard" Mobile/Jalk Fee Site, and the hazardous materials remaining do not constitute a threat to human health or the environment.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	10/28/1993
Comments:	The Department received a notification from PRP alleged that the site's soil contamination originated from an off-site source, Continental Heat Treating, Inc.. Soil at the site is contaminated with crude oil; heavy metals such as lead, mercury, and zinc; and chlorinated hydrocarbons such as PCE, TCE, and 1,2-DCE. Sample results indicate that the concentration of these contaminants exceeding regulatory limits. Due to the evidence of contamination onsite, the Department recommends a PEA.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

CPS-SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	03/05/2001
Global Id:	SL184801463
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.9375387978816
Longitude:	-118.074209690094
Case Type:	Cleanup Program Site
Case Worker:	LC
Local Agency:	Not reported

MOBIL OIL/JALK FEE (Continued) **S106386948**

RB Case Number: 0203
File Location: All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil, Soil Vapor
Potential Contaminants of Concern: Dichloroethane (DCA), Dichloroethene (DCE), Tetrachloroethylene (PCE), Trichloroethylene (TCE), Vinyl chloride
Site History: The Former ExxonMobil Jalk Fee Property (site) is approximately 9 acres in size and was used for oil production from the 1920s to the 1990s. All oil field facilities were removed in the late 1990s.
Initial investigations started in the early 1990s and soil impacted with volatile organic compounds (VOCs) and petroleum hydrocarbons was encountered. In 1998 and 2000, chlorinated and petroleum hydrocarbon impacted soil was excavated at the site and transported to offsite facilities for treatment. In 2001, the Los Angeles Regional Water Quality Control Board (Regional Board) issued a no further action requirement for soil. In 2003, the site was redeveloped as an industrial business park. Initial groundwater investigations started in 2000, with the installation of 3 shallow single-depth groundwater monitoring wells. VOCs, mostly tetrachloroethene (PCE) and trichloroethene (TCE) were detected in groundwater samples. To further assess groundwater conditions at the site, three additional multi-depth wells were installed at the site in April 2011. During this investigation, PCE was detected in soil at concentrations up to 6,600 micrograms per kilogram at approximately 15 feet below ground surface, in the southern part of the site. Groundwater samples from the newly installed wells are impacted with PCE at concentrations up to 1,800 micrograms per liter. Based on these results, the Regional Board is directing the Discharger to conduct additional soil and groundwater investigations; therefore, the 2001 no further action determination for soil is no longer applicable to the site.
Additional investigations (soil vapor, soil, groundwater) were conducted in 2012 and 2014. Off-site groundwater investigations were conducted in 2014 with the installation of multidepth groundwater monitoring wells. In 2017, indoor air investigations were conducted at two on-site (10607 Norwalk Boulevard and 10629 Norwalk Boulevard) and one off-site building (10701 Norwalk Boulevard). Indoor air sampling results were used to conduct an evaluation of vapor intrusion into indoor air.

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:
Region: 4
Facility Status: Post Remediation Monitoring
SLIC: 0203
Substance: TPH
Staff: TTW

LA Co. Site Mitigation:
Facility ID: Not reported
Status: Not reported
Site ID: SD0010503
Jurisdiction: County
Case ID: RO0000307
Abated: Yes
Assigned To: LR
Entered Date: 05/11/2004

MOBIL OIL/JALK FEE (Continued) **S106386948**

Abated Date: 03/04/1997

76
NNE
1/2-1
0.625 mi.
3299 ft.

Relative:
Higher

Actual:
151 ft.

WHITTIER PLATING CO.,INC.
11642 E PIKE ST
SANTA FE SPRINGS, CA 90670

SEMS-ARCHIVE **1000421832**
CORRACTS **CAD008495129**
RCRA-SQG
ENVIROSTOR
FINDS
ECHO
EMI
HAZNET
LOS ANGELES CO. HMS
HWP
LA Co. Site Mitigation

SEMS Archive:

Site ID:	0900220
EPA ID:	CAD008495129
Cong District:	33
FIPS Code:	06037
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information
Latitude:	33.941667
Longitude:	-118.071667

SEMS Archive Detail:

Region:	09
Site ID:	0900220
EPA ID:	CAD008495129
Site Name:	WHITTIER PLATTING CO INC
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1996-01-23 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	09
Site ID:	0900220
EPA ID:	CAD008495129
Site Name:	WHITTIER PLATTING CO INC
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1991-08-09 04:00:00
Qual:	D
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0900220

WHITTIER PLATING CO.,INC. (Continued) **1000421832**

EPA ID: CAD008495129
Site Name: WHITTIER PLATTING CO INC
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1991-01-01 05:00:00
Finish Date: 1991-01-01 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf

CORRACTS:
EPA ID: CAD008495129
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910724
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 332813
Electroplating, Plating, Polishing, Anodizing, and Coloring
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: WHITTIER PLATING CO.,INC.
Facility address: 11642 E PIKE ST
SANTA FE SPRINGS, CA 90670
EPA ID: CAD008495129
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: WHITTIER PLATING CO.,INC.
Owner/operator address: 11642 E PIKE ST
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: 213-693-4194
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported

WHITTIER PLATING CO.,INC. (Continued) **1000421832**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: WHITTIER PLATING CO.,INC.
Owner/operator address: 11642 E PIKE ST
SANTA FE SPRINGS, CA 90670
Owner/operator country: Not reported
Owner/operator telephone: 213-693-4194
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 04/06/1981
Site name: WHITTIER PLATING CO.,INC.
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 07/24/1991
Event: LEAD AGENCY DETERMINATION

Event date: 07/24/1991
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 07/24/1991
Event: NCAPS RANKING/PRIORITY

Event date: 07/24/1991
Event: PA OR CERCLA INSPECTION

Facility Has Received Notices of Violations:
Regulation violated: F - 264.140-150.H

WHITTIER PLATING CO.,INC. (Continued) **1000421832**

Area of violation: TSD - Financial Requirements
Date violation determined: 10/27/1988
Date achieved compliance: 04/19/1989
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.50-60
Area of violation: Generators - General
Date violation determined: 10/20/1988
Date achieved compliance: 04/19/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.50-60
Area of violation: Generators - General
Date violation determined: 05/05/1987
Date achieved compliance: 04/19/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/17/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 10/27/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 04/19/1989
Evaluation lead agency: State

Evaluation date: 10/20/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/19/1989
Evaluation lead agency: State

Evaluation date: 09/29/1987
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported

WHITTIER PLATING CO.,INC. (Continued) **1000421832**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/05/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/19/1989
Evaluation lead agency: State

ENVIROSTOR:
Facility ID: 80001584
Status: * Inactive
Status Date: 01/01/2008
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Unknown
Division Branch: Cleanup Chatsworth
Assembly: 57
Senate: 32
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.95547
Longitude: -118.0744
APN: 8002013001
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 8002013001
Alias Type: APN
Alias Name: CAD008495129
Alias Type: EPA Identification Number
Alias Name: 80001584
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 07/24/1991
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported

WHITTIER PLATING CO.,INC. (Continued) **1000421832**

Schedule Revised Date: Not reported

FINDS:

Registry ID: 110002634454

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000421832
Registry ID:	110002634454
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002634454

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	6941
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HAZNET:

envid:	1000421832
Year:	1995
GEPAID:	CAD008495129
Contact:	WHITTIER PLATING CO.,INC.
Telephone:	2136934194
Mailing Name:	Not reported
Mailing Address:	11642 PIKE ST
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906702938
Gen County:	Not reported
TSD EPA ID:	NVT330010000
TSD County:	Not reported
Waste Category:	Contaminated soil from site clean-up
Disposal Method:	Not reported

WHITTIER PLATING CO.,INC. (Continued) **1000421832**

Tons: 231.0000
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000421832
Year: 1995
GEPAID: CAD008495129
Contact: WHITTIER PLATING CO.,INC.
Telephone: 2136934194
Mailing Name: Not reported
Mailing Address: 11642 PIKE ST
Mailing City,St,Zip: SANTA FE SPRINGS, CA 906702938
Gen County: Not reported
TSD EPA ID: CAT080033681
TSD County: Not reported
Waste Category: Aqueous solution with metals (< restricted levels and (Alkaline solution (pH >= 12.5) with metals))
Disposal Method: Recycler
Tons: 1.2510
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000421832
Year: 1995
GEPAID: CAD008495129
Contact: WHITTIER PLATING CO.,INC.
Telephone: 2136934194
Mailing Name: Not reported
Mailing Address: 11642 PIKE ST
Mailing City,St,Zip: SANTA FE SPRINGS, CA 906702938
Gen County: Not reported
TSD EPA ID: CAD981631116
TSD County: Not reported
Waste Category: Contaminated soil from site clean-up
Disposal Method: Not reported
Tons: .0000
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000421832
Year: 1995
GEPAID: CAD008495129
Contact: WHITTIER PLATING CO.,INC.
Telephone: 2136934194
Mailing Name: Not reported
Mailing Address: 11642 PIKE ST
Mailing City,St,Zip: SANTA FE SPRINGS, CA 906702938
Gen County: Not reported
TSD EPA ID: NVT330010000
TSD County: Not reported
Waste Category: Contaminated soil from site clean-up
Disposal Method: Not reported
Tons: 739.8560
Cat Decode: Not reported

WHITTIER PLATING CO.,INC. (Continued) **1000421832**

Method Decode: Not reported
Facility County: Los Angeles

envid: 1000421832
Year: 1994
GEPAID: CAD008495129
Contact: WHITTIER PLATING CO.,INC.
Telephone: 2136934194
Mailing Name: Not reported
Mailing Address: 11642 PIKE ST
Mailing City,St,Zip: SANTA FE SPRINGS, CA 906702938
Gen County: Not reported
TSD EPA ID: CAD097030993
TSD County: Not reported
Waste Category: Invalid waste code
Disposal Method: Recycler
Tons: 3.3360
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
10 additional CA_HAZNET: record(s) in the EDR Site Report.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: I
Facility Id: 004047-I04193
Facility Type: 01
Facility Status: Closed
Area: 1H
Permit Number: 00001680J
Permit Status: Closed

HWP:
EPA Id: CAD008495129
Cleanup Status: PROTECTIVE FILER
Latitude: 33.95547
Longitude: -118.0744
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 57
Senate District: 32
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:
EPA Id: CAD008495129
Facility Type: Historical - Non-Operating
Unit Names: Unit1
Event Description: Protective Filer Status - PROTECTIVE FILER (APPROVED)
Actual Date: 11/30/1988

WHITTIER PLATING CO.,INC. (Continued) **1000421832**

LA Co. Site Mitigation:
- Facility ID: Not reported
- Status: Not reported
- Site ID: SD0010501
- Jurisdiction: Not reported
- Case ID: RO0000306
- Abated: Yes
- Assigned To: JW
- Entered Date: Not reported
- Abated Date: 01/01/1995

77
SSE
1/2-1
0.660 mi.
3487 ft.

CONTINENTAL HEAT TREATING
10643 NORWALK
SANTA FE SPRINGS, CA

ENVIROSTOR
CPS-SLIC
AST
NPDES
CIWQS

1006079722
N/A

Relative: Higher

Actual: 137 ft.

ENVIROSTOR:
- Facility ID: 19990035
- Status: Inactive - Action Required
- Status Date: 08/28/2001
- Site Code: 300857
- Site Type: Evaluation
- Site Type Detailed: Evaluation
- Acres: 0.1
- NPL: NO
- Regulatory Agencies: US EPA
- Lead Agency: US EPA
- Program Manager: Lori Parnass
- Supervisor: Rita Kamat
- Division Branch: Cleanup Chatsworth
- Assembly: 57
- Senate: 32
- Special Program: EPA - PASI
- Restricted Use: NO
- Site Mgmt Req: NONE SPECIFIED
- Funding: EPA Grant
- Latitude: 33.93690
- Longitude: -118.0735
- APN: 8009025045
- Past Use: METAL FINISHING, METAL PLATING - OTHER
- Potential COC: * HALOGENATED ORGANIC COMPOUNDS
- Confirmed COC: NONE SPECIFIED
- Potential Description: SOIL, SV
- Alias Name: CONTINENTAL HEAT TREATING
- Alias Type: Alternate Name
- Alias Name: 8009025045
- Alias Type: APN
- Alias Name: 300857
- Alias Type: Project Code (Site Code)
- Alias Name: 19990035
- Alias Type: Envirostor ID Number

Completed Info:
- Completed Area Name: PROJECT WIDE
- Completed Sub Area Name: Not reported
- Completed Document Type: Preliminary Endangerment Assessment Report
- Completed Date: 08/28/2001

CONTINENTAL HEAT TREATING (Continued) **1006079722**

Comments: USEPA approved the PA.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SLIC REG 4:
Region: 4
Facility Status: Site Assessment
SLIC: 1057
Substance: VOCs
Staff: DY

AST:
Certified Unified Program Agencies: Santa Fe Springs
Owner: CONTINENTAL HEAT TREATING
Total Gallons: 1,320
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported
Fax: Not reported
Mailing Address: Not reported
Mailing Address City: Not reported
Mailing Address State: Not reported
Mailing Address Zip Code: Not reported
Operator Name: Not reported
Operator Phone: Not reported
Owner Phone: Not reported
Owner Mail Address: Not reported
Owner State: Not reported
Owner Zip Code: Not reported
Owner Country: Not reported
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: Not reported

NPDES:
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported

CONTINENTAL HEAT TREATING (Continued) **1006079722**

WDID:	4 19I000552
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	03/16/1992
Operator Name:	Continental Heat Treating Inc
Operator Address:	10643 Norwalk Blvd
Operator City:	Santa Fe Springs
Operator State:	California
Operator Zip:	90670

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	4
Regulatory Measure ID:	188643
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 19I000552
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/16/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Continental Heat Treating Inc
Discharge Address:	10643 Norwalk Blvd
Discharge City:	Santa Fe Springs
Discharge State:	California
Discharge Zip:	90670
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported

CONTINENTAL HEAT TREATING (Continued) **1006079722**

Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	188643
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	4 19I000552
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported

CONTINENTAL HEAT TREATING (Continued) **1006079722**

Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	03/16/1992
Status:	Active
Status Date:	03/16/1992
Place Size:	70000
Place Size Unit:	SqFt
Contact:	Shaun Radford
Contact Title:	General Manager
Contact Phone:	562-944-8808
Contact Phone Ext:	Not reported
Contact Email:	sradford@continentalht.com
Operator Name:	Continental Heat Treating Inc
Operator Address:	10643 Norwalk Blvd
Operator City:	Santa Fe Springs
Operator State:	California
Operator Zip:	90670
Operator Contact:	Shaun Radford
Operator Contact Title:	Gen. Mgr.
Operator Contact Phone:	562-944-8808
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	sradford@continentalht.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	562-944-8808
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Gabriel River
Certifier:	Shaun Radford
Certifier Title:	General Manager
Certification Date:	18-JUN-15
Primary Sic:	3398-Metal Heat Treating
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CONTINENTAL HEAT TREATING (Continued) **1006079722**

Facility Status:	Active
NPDES Number:	CAS000001
Region:	4
Agency Number:	0
Regulatory Measure ID:	188643
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	4 19I000552
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/16/1992
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	10643 Norwalk Blvd
Discharge Name:	Continental Heat Treating Inc
Discharge City:	Santa Fe Springs
Discharge State:	California
Discharge Zip:	90670
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	4
Regulatory Measure ID:	188643
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 19I000552
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/16/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Continental Heat Treating Inc
Discharge Address:	10643 Norwalk Blvd
Discharge City:	Santa Fe Springs
Discharge State:	California
Discharge Zip:	90670
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported

CONTINENTAL HEAT TREATING (Continued) **1006079722**

Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	188643
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	4 19I000552
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported

CONTINENTAL HEAT TREATING (Continued) **1006079722**

Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	03/16/1992
Status:	Active
Status Date:	03/16/1992
Place Size:	70000
Place Size Unit:	SqFt
Contact:	Shaun Radford
Contact Title:	General Manager
Contact Phone:	562-944-8808
Contact Phone Ext:	Not reported
Contact Email:	sradford@continentalht.com
Operator Name:	Continental Heat Treating Inc
Operator Address:	10643 Norwalk Blvd
Operator City:	Santa Fe Springs
Operator State:	California
Operator Zip:	90670
Operator Contact:	Shaun Radford
Operator Contact Title:	Gen. Mgr.
Operator Contact Phone:	562-944-8808
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	sradford@continentalht.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	562-944-8808
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N

CONTINENTAL HEAT TREATING (Continued) **1006079722**

Receiving Water Name:	San Gabriel River
Certifier:	Shaun Radford
Certifier Title:	General Manager
Certification Date:	18-JUN-15
Primary Sic:	3398-Metal Heat Treating
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Agency:	Continental Heat Treating Inc
Agency Address:	10643 Norwalk Blvd, Santa Fe Springs, CA 90670
Place/Project Type:	Industrial - Metal Heat Treating
SIC/NAICS:	3398
Region:	4
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	4 19I000552
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/16/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.93735
Longitude:	-118.0727

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78 **TROJAN BATTERY CO** **ENVIROSTOR** **S111827076**
SE **12380 E CLARK ST** **LOS ANGELES CO. HMS** **N/A**
1/2-1 **SANTA FE SPRINGS, CA 90670**
0.682 mi.
3601 ft.

Relative:
Higher

Actual:
143 ft.

ENVIROSTOR:

Facility ID:	71002926
Status:	No Action Required
Status Date:	01/31/2003
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Chatsworth
Assembly:	57
Senate:	32
Special Program:	Not reported

TROJAN BATTERY CO (Continued) **S111827076**

Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.93811
Longitude: -118.0695
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD981966179
Alias Type: EPA Identification Number
Alias Name: 110000475799
Alias Type: EPA (FRS #)
Alias Name: 71002926
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 01/31/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase I Verification
Completed Date: 01/31/2003
Comments: Inspection report sent on 1/31/2003

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 001185-001244
Facility Type: 0
Facility Status: Closed
Area: 1H
Permit Number: 00001947T
Permit Status: Closed

79
NNE
1/2-1
0.715 mi.
3776 ft.

ALL PURE CHEMICAL CO
11600 PIKE STREET
SANTA FE SPRINGS, CA 90670

ENVIROSTOR
WDS

S100538588
N/A

Relative:
Higher

Actual:
151 ft.

ENVIROSTOR:

Facility ID:	19281186
Status:	Refer: Other Agency
Status Date:	03/01/1984
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Chatsworth
Assembly:	57
Senate:	32
Special Program:	* RCRA 3012 - Past Haz Waste Disp Inven Site
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.95729
Longitude:	-118.0754
APN:	8002013013
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	MCKESSON CHEMICAL COMPANY
Alias Type:	Alternate Name
Alias Name:	8002013013
Alias Type:	APN
Alias Name:	CAD000035878
Alias Type:	EPA Identification Number
Alias Name:	CAD000633313
Alias Type:	EPA Identification Number
Alias Name:	110000601135
Alias Type:	EPA (FRS #)
Alias Name:	19281186
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	09/28/1983
Comments:	FACILITY IDENTIFIED ID FROM ERRIS
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	11/07/1994
Comments:	DATABASE VALIDATION PROJECT CONFIRMS NFA FOR DTSC.
Completed Area Name:	PROJECT WIDE

ALL PURE CHEMICAL CO (Continued) **S100538588**

Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 03/01/1984
Comments: SOURCE ACT: MFG & DISTRBT OF ORG & INORG CHEM. YR OF OPER: 1978 TO PRESENT WASTE: SODIUM HYDROCHLORID. IN 1982 GENERATED 48.6 TONS OF HAZ WASTE. SUBMIT TO EPA VIOLATION DETECTED INCIDENT: CHLORINE GAS LEAK (CITY FD) PRELIM ASSESS DONE RCRA 3012

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

WDS:
Facility ID: 4 19I000869
Facility Type: Not reported
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 4
Facility Telephone: Not reported
Facility Contact: Not reported
Agency Name: ALL PURE CHEMICAL CO
Agency Address: Not reported
Agency City,St,Zip: 0
Agency Contact: Not reported
Agency Telephone: Not reported
Agency Type: Not reported
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or

ALL PURE CHEMICAL CO (Continued) **S100538588**

dischargers having waste storage systems with land disposal such as dairy waste ponds.

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80 **FINELINE PAINT CORP.** **ENVIROSTOR** **S103955697**
ENE **12200 LOS NIETOS** **HIST CORTESE** **N/A**
1/2-1 **SANTA FE SPRINGS, CA 90670**
0.817 mi.
4316 ft.

Relative: Higher

Actual: 163 ft.

ENVIROSTOR:

Facility ID:	19280908
Status:	Refer: Other Agency
Status Date:	08/31/1995
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Chatsworth
Assembly:	57
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.95346
Longitude:	-118.0660
APN:	8002017032
Past Use:	NONE SPECIFIED
Potential COC:	* AQUEOUS SOLUTION WITH METALS * CONTAMINATED SOIL * Sludge - Paint * UNSPECIFIED SOLVENT MIXTURES Lead Chromium VI
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	SPECTRUM PAINT CORPORATION
Alias Type:	Alternate Name
Alias Name:	8002017032
Alias Type:	APN
Alias Name:	CAD008263048
Alias Type:	EPA Identification Number
Alias Name:	19280908
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	03/20/1980
Comments:	FACILITY IDENTIFIED FAC ID WADE Q
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	11/08/1988
Comments:	SITE SCREENING DONE NFA BY DHS DUE TO LACK OF ANY OBSERVED RELEASE

FINELINE PAINT CORP. (Continued) **S103955697**

AND LOW ROUTE CHARACTERISTIC SCORES AND THUS A LOW HRS SCORE CURRENTLY BEING MANAGED BY LACE AND LACHD

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 07/01/1988
Comments: SITE SCREENING DONE FIT RECOMMENDS NFA UNDER CERCLA BASED ON LOW HRS SCORE

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/10/1987
Comments: SITE SCREENING DONE CERCLIS SITE

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-07632

Region: CORTESE
Facility County Code: 19
Reg By: CALSI
Reg Id: 19280908

T81 **DICE ROAD/LOS NIETOS ROAD DUMP** **ENVIROSTOR** **S104156351**
NE **9165 DICE ROAD** **SWF/LF** **N/A**
1/2-1 **SANTA FE SPRINGS, CA 90670** **WMUDS/SWAT**
0.837 mi.
4417 ft. **Site 1 of 2 in cluster T**

Relative:
Higher

Actual:
161 ft.

ENVIROSTOR:
Facility ID: 19490148
Status: No Further Action
Status Date: 04/01/1985
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: 0
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Harlan Jeche
Division Branch: Cleanup Chatsworth

DICE ROAD/LOS NIETOS ROAD DUMP (Continued) **S104156351**

Assembly: 57
Senate: 32
Special Program: * Site Char & Assess Grant (CERCLA 104)
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.955
Longitude: -118.0666
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS, LANDFILL - CONSTRUCTION
Potential COC: TPH-MOTOR OIL
Confirmed COC: 3002502-NO
Potential Description: SOIL
Alias Name: STANDARD OIL
Alias Type: Alternate Name
Alias Name: CAD980884860
Alias Type: EPA Identification Number
Alias Name: 19490148
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 04/01/1985
Comments: SINCE 1950'S SITE HAS BEEN LEASED TO FARMERS. IN 1983 LAND WAS SOLD.CURRENTLY FOR SALE. GROUND PHOTOS PHOTOS IN 1982 SHOW OLD CYLINDRICAL STORAGE TANK, PILES OF BROKEN CONCRETE. SUBMIT TO EPA PRELIM ASSESS DONE CERCLA 104

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/29/1980
Comments: FACILITY IDENTIFIED FAC ID LACE LACE DUMP CLASS,OPER UNKNOWN

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SWF/LF (SWIS):
Facility ID: 19-AI-5011
Lat/Long: 33.95492 / -118.06507
Owner Name: E and L Properties
Owner Telephone: Not reported
Owner Address: Claus Etienberger
Owner Address2: 14000 South Van Ness Ave
Owner City,St,Zip: Gardena, CA 90248
Operational Status: Closed
Operator: Not reported
Operator Phone: Not reported

DICE ROAD/LOS NIETOS ROAD DUMP (Continued) **S104156351**

Operator Address: Not reported
Operator Address2: Not reported
Operator City,St,Zip: Not reported
Permit Date: Not reported
Permit Status: Not reported
Permitted Acreage: $25.00
Activity: Solid Waste Disposal Site
Regulation Status: Pre-regulations
Landuse Name: Not reported
GIS Source: Map
Category: Disposal
Unit Number: 01
Inspection Frequency: Annual
Accepted Waste: Not reported
Closure Date: Not reported
Closure Type: Not reported
Disposal Acreage: Not reported
SWIS Num: 19-AI-5011
Waste Discharge Requirement Num: Not reported
Program Type: Not reported
Permitted Throughput with Units: Not reported
Actual Throughput with Units: Not reported
Permitted Capacity with Units: Not reported
Remaining Capacity: Not reported
Remaining Capacity with Units: Not reported
Lat/Long: 33.95492 / -118.06507

LOS ANGELES CO. LF:
Site ID: 1918
Alt. Address: 9155 Dice Road, Santa Fe Springs, CA 90670
Site Contact: Not reported
Site Contact Phone: Not reported
Site Email: Not reported
Site Website: Not reported
Site Type: Unknown
Site SWIS Number: 19-AI-5011
Beginning Operation Date: Not reported
Ending Operation Date: Not reported
Local Enforcement Agency: County Public Health
Maximun Depth Fill(Ft): Not reported
Permitted Capacity: Not reported
Present Use: Commercial; Manufacturing
Remaining Capacity(Million): Not reported
Status: Closed
Waste Accepted: Not reported
Hours of Operation: Not reported
Disposal Area (Acre): Not reported

Detail As Of 01/2014:
Operator Name: Unknown
Operator Address: Not reported
Operator City/State/Zip: Not reported
Operator Contact: Not reported
Operator Telephone: Not reported
Operator Email: Not reported
Owner Name: E & L Properties
Owner Address: 14000 South Van Ness Ave

DICE ROAD/LOS NIETOS ROAD DUMP (Continued) **S104156351**

Owner City/State/Zip: Gardena, CA 90248
Owner Contact: Claus Etienberger
Owner Telephone: Not reported
Owner Email: Not reported

WMUDS/SWAT:
Edit Date: Not reported
Complexity: Not reported
Primary Waste: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Base Meridian: Not reported
NPID: Not reported
Tonnage: 0
Regional Board ID: Not reported
Municipal Solid Waste: False
Superorder: False
Open To Public: False
Waste List: False
Agency Type: Not reported
Agency Name: Not reported
Agency Department: Not reported
Agency Address: Not reported
Agency City,St,Zip: Not reported
Agency Contact: Not reported
Agency Telephone: Not reported
Land Owner Name: Not reported
Land Owner Address: Not reported
Land Owner City,St,Zip: CA
Land Owner Contact: Not reported
Land Owner Phone: Not reported
Region: 4
Facility Type: Not reported
Facility Description: Not reported
Facility Telephone: Not reported
SWAT Facility Name: Not reported
Primary SIC: Not reported
Secondary SIC: Not reported
Comments: Not reported
Last Facility Editors: Not reported
Waste Discharge System: False
Solid Waste Assessment Test Program: True
Toxic Pits Cleanup Act Program: False
Resource Conservation Recovery Act: False
Department of Defence: False
Solid Waste Assessment Test Program: Not reported
Threat to Water Quality: Not reported
Sub Chapter 15: False
Regional Board Project Officer: LT
Number of WMUDS at Facility: 1
Section Range: Not reported
RCRA Facility: Not reported
Waste Discharge Requirements: Not reported
Self-Monitoring Rept. Frequency: Not reported
Waste Discharge System ID: 4 190281NUR
Solid Waste Information ID: Not reported

T82 **ELECTRONIC CHROME CO INC** **ENVIROSTOR** **1000181711**
NE **9132 DICE RD** **HIST UST** **N/A**
1/2-1 **SANTA FE SPRINGS, CA 90670** **EMI**
0.859 mi.
4536 ft. **Site 2 of 2 in cluster T**

Relative:
Higher

Actual:
161 ft.

ENVIROSTOR:

Facility ID:	71002227
Status:	Refer: Other Agency
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Chatsworth
Assembly:	57
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.95517
Longitude:	-118.0665
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD008391427
Alias Type:	EPA Identification Number
Alias Name:	71002227
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

HIST UST:

File Number:	00026436
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026436.pdf
Region:	STATE

ELECTRONIC CHROME CO INC (Continued) **1000181711**

Facility ID:	00000029262
Facility Type:	Other
Other Type:	CHROME PLATING
Contact Name:	MIKE REED
Telephone:	2139466671
Owner Name:	ELECTRONIC CHROME CO., INC.
Owner Address:	9132 DICE RD.
Owner City,St,Zip:	SANTA FE SPRINGS, CA 90670
Total Tanks:	0010
Tank Num:	001
Container Num:	1
Year Installed:	1968
Tank Capacity:	00000750
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	20
Leak Detection:	Visual
Tank Num:	002
Container Num:	2
Year Installed:	1968
Tank Capacity:	00000850
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	20
Leak Detection:	Visual
Tank Num:	003
Container Num:	3
Year Installed:	1968
Tank Capacity:	00000860
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	20
Leak Detection:	Visual
Tank Num:	004
Container Num:	4
Year Installed:	1970
Tank Capacity:	00002095
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	20
Leak Detection:	Visual
Tank Num:	005
Container Num:	5
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	20
Leak Detection:	Visual
Tank Num:	006
Container Num:	6

ELECTRONIC CHROME CO INC (Continued) **1000181711**

Year Installed: 1970
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 20
Leak Detection: Visual

Tank Num: 007
Container Num: 7
Year Installed: 1971
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 20
Leak Detection: Visual

Tank Num: 008
Container Num: 8
Year Installed: 1971
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 20
Leak Detection: Visual

Tank Num: 009
Container Num: 9
Year Installed: 1982
Tank Capacity: 00000850
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 4
Leak Detection: None

Tank Num: 010
Container Num: 10
Year Installed: 1967
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 4
Leak Detection: Visual

Click here for Geo Tracker PDF:

EMI:
Year: 1987
County Code: 19
Air Basin: SC
Facility ID: 10005
Air District Name: SC
SIC Code: 3471
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0

ELECTRONIC CHROME CO INC (Continued) **1000181711**

Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

83
ESE
1/2-1
0.886 mi.
4679 ft.

BEAUMON TRUST PROPERTY
12525 PARK AVENUE
SANTA FE SPRINGS, CA 90670

RESPONSE **S107735898**
ENVIROSTOR **N/A**

Relative:
Higher

Actual:
152 ft.

RESPONSE:

Facility ID:	60000159
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	0.15
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Allan Plaza
Division Branch:	Cleanup Chatsworth
Site Code:	301280
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	57
Senate:	32
Special Program Status:	EPA - Target Site Investigation
Status:	Certified
Status Date:	02/06/2015
Restricted Use:	NO
Funding:	EPA Grant
Latitude:	33.94083
Longitude:	-118.0640
APN:	NONE SPECIFIED
Past Use:	OIL FIELD, RECYCLING - DRUM
Potential COC :	Benzene Total Chromium (1:6 ratio Cr VI:Cr III Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Cadmium and compounds Zinc
Confirmed COC:	Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Cadmium and compounds Benzene Total Chromium (1:6 ratio Cr VI:Cr III Lead Zinc
Potential Description:	OTH, SOIL, SV
Alias Name:	110033618093
Alias Type:	EPA (FRS #)
Alias Name:	SLT4L4671818
Alias Type:	GeoTracker Global ID
Alias Name:	301280
Alias Type:	Project Code (Site Code)
Alias Name:	60000159
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	09/30/2006
Comments:	Revised Report submitted for USEPA review.

BEAUMON TRUST PROPERTY (Continued) **S107735898**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/12/2006
Comments: DTSC approved the Interim Removal Action Workplan after 30 days public comment period and issued the approval letter and the Response to Public Comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/30/2007
Comments: RP completed field work activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 06/02/2006
Comments: Final Soil Vapor Survey And Indoor Air Modeling Workplan was issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/13/2006
Comments: DTSC issued the Soil Vapor Survey and Indoor Air Modeling Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 01/15/2009
Comments: DTSC reviewed the Workplan and provided comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/07/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 03/02/2010
Comments: DTSC approved the workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 06/08/2010
Comments: DTSC approved the results and issued a no further action for the four parcels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/20/2014
Comments: Comments sent to consultant

BEAUMON TRUST PROPERTY (Continued) **S107735898**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/27/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 07/21/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/21/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Responsible Agency Review
Completed Date: 10/19/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/06/2015
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 60000159
Status: Certified
Status Date: 02/06/2015
Site Code: 301280
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 0.15
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Allan Plaza
Division Branch: Cleanup Chatsworth
Assembly: 57
Senate: 32
Special Program: EPA - Target Site Investigation

BEAUMON TRUST PROPERTY (Continued) **S107735898**

Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 33.94083
Longitude: -118.0640
APN: NONE SPECIFIED
Past Use: OIL FIELD, RECYCLING - DRUM
Potential COC: Benzene Total Chromium (1:6 ratio Cr VI:Cr III Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Cadmium and compounds Zinc
Confirmed COC: Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Cadmium and compounds Benzene Total Chromium (1:6 ratio Cr VI:Cr III Lead Zinc
Potential Description: OTH, SOIL, SV
Alias Name: 110033618093
Alias Type: EPA (FRS #)
Alias Name: SLT4L4671818
Alias Type: GeoTracker Global ID
Alias Name: 301280
Alias Type: Project Code (Site Code)
Alias Name: 60000159
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 09/30/2006
Comments: Revised Report submitted for USEPA review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/12/2006
Comments: DTSC approved the Interim Removal Action Workplan after 30 days public comment period and issued the approval letter and the Response to Public Comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/30/2007
Comments: RP completed field work activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 06/02/2006
Comments: Final Soil Vapor Survey And Indoor Air Modeling Workplan was issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/13/2006
Comments: DTSC issued the Soil Vapor Survey and Indoor Air Modeling Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

BEAUMON TRUST PROPERTY (Continued) **S107735898**

Completed Document Type: Removal Action Workplan
Completed Date: 01/15/2009
Comments: DTSC reviewed the Workplan and provided comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/07/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 03/02/2010
Comments: DTSC approved the workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 06/08/2010
Comments: DTSC approved the results and issued a no further action for the four parcels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/20/2014
Comments: Comments sent to consultant

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/27/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 07/21/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/21/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Responsible Agency Review
Completed Date: 10/19/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/06/2015

BEAUMON TRUST PROPERTY (Continued) **S107735898**

Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

84
SE
1/2-1
0.902 mi.
4762 ft.

Relative:
Higher

Actual:
142 ft.

PLATE SHOP THE
10701 FOREST ST
SANTA FE SPRINGS, CA 90670

SEMS-ARCHIVE **1000397676**
ENVIROSTOR **CAD038195590**
RCRA NonGen / NLR
RAATS
FINDS
ECHO
HAZNET

SEMS Archive:
Site ID: 0901308
EPA ID: CAD038195590
Cong District: 33
FIPS Code: 06037
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information
Latitude: 33.936389
Longitude: -118.065278

SEMS Archive Detail:
Region: 09
Site ID: 0901308
EPA ID: CAD038195590
Site Name: PLATE SHOP THE
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1988-12-21 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0901308
EPA ID: CAD038195590
Site Name: PLATE SHOP THE
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1981-02-01 05:00:00

PLATE SHOP THE (Continued) **1000397676**

Finish Date: 1981-02-01 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901308
EPA ID: CAD038195590
Site Name: PLATE SHOP THE
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1988-12-21 05:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901308
EPA ID: CAD038195590
Site Name: PLATE SHOP THE
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 2
Start Date: 1984-06-01 05:00:00
Finish Date: 1985-05-01 05:00:00
Qual: L
Current Action Lead: St Perf

ENVIROSTOR:
Facility ID: 19340724
Status: Refer: Other Agency
Status Date: 11/08/1994
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Chatsworth
Assembly: 57
Senate: 32
Special Program: * RCRA 3012 - Past Haz Waste Disp Inven Site
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.93700
Longitude: -118.0668

PLATE SHOP THE (Continued) **1000397676**

APN: 8009015041
Past Use: NONE SPECIFIED
Potential COC: * UNSPECIFIED SLUDGE WASTE Cadmium and compounds Chromium VI Cyanide (free
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: GEM INDUSTRIES
Alias Type: Alternate Name
Alias Name: 8009015041
Alias Type: APN
Alias Name: CAD038195590
Alias Type: EPA Identification Number
Alias Name: 19340724
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/08/1994
Comments: DATABASE VALIDATION PROGRAM CONFIRMS NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 12/07/1987
Comments: SITE SCREENING DONE ON CERCLIS

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 03/03/1984
Comments: FACILITY DRIVE-BY ASAP. IN A SMALL INDUST PARK. NO HAZ WASTE PROBLEM WERE OBSERVED. SUBMIT TO EPA PRELIM ASSESS DONE RCRA 3012

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/28/1983
Comments: FACILITY IDENTIFIED ID FROM ERRIS

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

RCRA NonGen / NLR:
Date form received by agency: 02/03/1981
Facility name: PLATE SHOP THE
Facility address: 10701 FOREST ST
SANTA FE SPRINGS, CA 90670
EPA ID: CAD038195590

PLATE SHOP THE (Continued) **1000397676**

Mailing address: 10701 FOREST STREET
SANTA FE SPRING, CA 90670
Contact: ENVIRONMENTAL MANAGER
Contact address: 10701 FOREST ST
SANTA FE SPRINGS, CA 90670
Contact country: US
Contact telephone: 213-941-6175
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: JOHN HUSBAND
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

PLATE SHOP THE (Continued) **1000397676**

Violation Status: No violations found

FINDS:

Registry ID: 110002643382

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000397676
Registry ID:	110002643382
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002643382

HAZNET:

envid:	1000397676
Year:	2013
GEPAID:	CAL000323968
Contact:	ANDRES RODRIGUEZ
Telephone:	5629063505
Mailing Name:	Not reported
Mailing Address:	10701 FOREST ST
Mailing City,St,Zip:	SANTA FE SPRINGS, CA 906700000
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.9591
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

85
ENE
1/2-1
0.909 mi.
4798 ft.

ENVIROFORM INDUSTRIES **NPDES** **S100178485**
9624 JOHN ST **Notify 65** **N/A**
SANTA FE SPRINGS, CA 90670

Relative:
Higher

Actual:
162 ft.

NPDES:

Facility Status:	Active
NPDES Number:	CAS000001
Region:	4
Agency Number:	0
Regulatory Measure ID:	461911
Place ID:	Not reported
Order Number:	97-03-DWQ

ENVIROFORM INDUSTRIES (Continued) **S100178485**

WDID:	4 19NEC001605
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	12/01/2015
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	9624 John St
Discharge Name:	Enviroform Industries
Discharge City:	Santa Fe Springs
Discharge State:	California
Discharge Zip:	90670
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	461911
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	4 19NEC001605
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	11/05/2015
Processed Date:	12/01/2015
Status:	Active
Status Date:	12/01/2015
Place Size:	1500
Place Size Unit:	SqFt
Contact:	Victor Shane
Contact Title:	Not reported
Contact Phone:	877-694-6330
Contact Phone Ext:	Not reported
Contact Email:	victor@enviroformindustries.com
Operator Name:	Enviroform Industries
Operator Address:	9624 John St
Operator City:	Santa Fe Springs
Operator State:	California
Operator Zip:	90670
Operator Contact:	Victor Shane
Operator Contact Title:	Not reported

ENVIROFORM INDUSTRIES (Continued) **S100178485**

Operator Contact Phone:	877-694-6330
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	victor@enviroformindustries.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Victor Shane
Certifier Title:	Partner
Certification Date:	19-AUG-16
Primary Sic:	2841-Soaps and Other Detergents, Except Speciality Cleaners
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	4
Regulatory Measure ID:	461911
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 19NEC001605
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	12/01/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Enviroform Industries
Discharge Address:	9624 John St
Discharge City:	Santa Fe Springs
Discharge State:	California

ENVIROFORM INDUSTRIES (Continued) **S100178485**

Discharge Zip:	90670
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

ENVIROFORM INDUSTRIES (Continued) **S100178485**

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	4 19NEC001605
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	12/01/2015
Operator Name:	Enviroform Industries
Operator Address:	9624 John St
Operator City:	Santa Fe Springs
Operator State:	California
Operator Zip:	90670

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	461911
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	4 19NEC001605
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	11/05/2015
Processed Date:	12/01/2015
Status:	Active
Status Date:	12/01/2015
Place Size:	1500
Place Size Unit:	SqFt
Contact:	Victor Shane
Contact Title:	Not reported
Contact Phone:	877-694-6330
Contact Phone Ext:	Not reported
Contact Email:	victor@enviroformindustries.com

ENVIROFORM INDUSTRIES (Continued) **S100178485**

Operator Name:	Enviroform Industries
Operator Address:	9624 John St
Operator City:	Santa Fe Springs
Operator State:	California
Operator Zip:	90670
Operator Contact:	Victor Shane
Operator Contact Title:	Not reported
Operator Contact Phone:	877-694-6330
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	victor@enviroformindustries.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Victor Shane
Certifier Title:	Partner
Certification Date:	19-AUG-16
Primary Sic:	2841-Soaps and Other Detergents, Except Speciality Cleaners
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	4
Regulatory Measure ID:	461911
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 19NEC001605
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported

ENVIROFORM INDUSTRIES (Continued) **S100178485**

Effective Date Of Regulatory Measure:	12/01/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Enviroform Industries
Discharge Address:	9624 John St
Discharge City:	Santa Fe Springs
Discharge State:	California
Discharge Zip:	90670
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported

ENVIROFORM INDUSTRIES (Continued) **S100178485**

Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported

86
ENE
1/2-1
0.978 mi.
5162 ft.

PRESSURE VESSEL SERVICES, INC. **ENVIROSTOR** **1005451980**
12522 LOS NIETOS ROAD **N/A**
SANTA FE SPRINGS, CA 90670

Relative:
Higher

Actual:
162 ft.

ENVIROSTOR:

Facility ID:	71003316
Status:	Refer: Other Agency
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Chatsworth
Assembly:	57
Senate:	32
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.94981
Longitude:	-118.0617
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAL000112071
Alias Type:	EPA Identification Number
Alias Name:	71003316
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported

PRESSURE VESSEL SERVICES, INC. (Continued) **1005451980**

Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

87
East
1/2-1
0.985 mi.
5200 ft.

Relative:
Higher

Actual:
159 ft.

PMC SPECIALTIES GRP DIV PMC INC
10051 ROMANDEL AVE
SANTA FE SPRINGS, CA 90670

RCRA-SQG **1000132145**
ENVIROSTOR **CAD030865422**
LUST
CPS-SLIC
VCP
EMI
HIST CORTESE

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: PMC SPECIALTIES GRP DIV PMC INC
Facility address: 10051 ROMANDEL AVE
SANTA FE SPRINGS, CA 90670
EPA ID: CAD030865422
Mailing address: 10051 ROMANDEL AVE.
SANTA FE SPRINGS, CA 90670
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: FERRO CORP./PRODUCTOL CHEMICAL DIVISION
Owner/operator address: 10051 ROMANDEL AVE.
NOT REQUIRED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: 213-944-0111
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: PMC INC
Owner/operator address: 10051 ROMANDEL AVE.
SANTA FE SPRINGS, CA 90670
Owner/operator country: Not reported
Owner/operator telephone: 213-944-0111
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Site name: PMC SPECIALTIES GRP DIV PMC INC
Classification: Small Quantity Generator

Date form received by agency: 11/07/1994
Site name: PMC SPECIALTIES GROUP
Classification: Large Quantity Generator

Date form received by agency: 01/28/1992
Site name: PMC SPECIALTIES
Classification: Large Quantity Generator

Date form received by agency: 06/26/1990
Site name: FERRO CORP/PRODUCTOL CHEMICAL DIV
Classification: Large Quantity Generator

Date form received by agency: 08/07/1980
Site name: PMC SPECIALTIES GRP DIV PMC INC
Classification: Not a generator, verified

Facility Has Received Notices of Violations:
Regulation violated: FR - 262.10-12.A

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

Area of violation: Generators - General
Date violation determined: 02/07/1985
Date achieved compliance: 01/01/1986
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 05/03/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/07/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 01/01/1986
Evaluation lead agency: State

Evaluation date: 02/07/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

ENVIROSTOR:
Facility ID: 71002354
Status: Refer: Other Agency
Status Date: 11/21/2005
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: 0
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Assembly: 57
Senate: 32
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.94660
Longitude: -118.0610
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: Productol, Inc.
Alias Type: Alternate Name
Alias Name: CAD030865422
Alias Type: EPA Identification Number
Alias Name: SL204751665
Alias Type: GeoTracker Global ID
Alias Name: T0603703040
Alias Type: GeoTracker Global ID
Alias Name: 71002354
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 11/21/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 03/30/2006
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Facility ID: 60000466
Status: Active
Status Date: 10/04/2006
Site Code: 301303
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 9.1
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Laura Radke
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Assembly: 57
Senate: 32
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.94435
Longitude: -118.0609
APN: 8011-002-011, 8011-002-012, 8011-002-013, 8011-002-014, 8011-002-016,

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

	8011-002-018, 8011-002-023, 8011-007-037, 8011-007-039, 8011-007-041, 8011002011, 8011002012, 8011002013, 8011002014, 8011002016, 8011002018, 8011002023, 8011007037, 8011007039, 8011007041
Past Use:	MANUFACTURING - CHEMICALS
Potential COC:	Benzene TPH-diesel TPH-gas 2,4-Dimethylphenol Methyl isobutyl ketone 2-Methylphenol 4-Methylphenol Phenol Naphthalene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene
Confirmed COC:	Naphthalene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene TPH-diesel TPH-gas 2,4-Dimethylphenol Methyl isobutyl ketone 2-Methylphenol 4-Methylphenol Phenol Benzene
Potential Description:	OTH, SOIL, SV
Alias Name:	8011-002-011
Alias Type:	APN
Alias Name:	8011-002-012
Alias Type:	APN
Alias Name:	8011-002-013
Alias Type:	APN
Alias Name:	8011-002-014
Alias Type:	APN
Alias Name:	8011-002-016
Alias Type:	APN
Alias Name:	8011-002-018
Alias Type:	APN
Alias Name:	8011-002-023
Alias Type:	APN
Alias Name:	8011-007-037
Alias Type:	APN
Alias Name:	8011-007-039
Alias Type:	APN
Alias Name:	8011-007-041
Alias Type:	APN
Alias Name:	8011002011
Alias Type:	APN
Alias Name:	8011002012
Alias Type:	APN
Alias Name:	8011002013
Alias Type:	APN
Alias Name:	8011002014
Alias Type:	APN
Alias Name:	8011002016
Alias Type:	APN
Alias Name:	8011002018
Alias Type:	APN
Alias Name:	8011002023
Alias Type:	APN
Alias Name:	8011007037
Alias Type:	APN
Alias Name:	8011007039
Alias Type:	APN
Alias Name:	8011007041
Alias Type:	APN
Alias Name:	110002140914
Alias Type:	EPA (FRS #)
Alias Name:	110033612188
Alias Type:	EPA (FRS #)
Alias Name:	301303
Alias Type:	Project Code (Site Code)

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

Alias Name: 60000466
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 03/15/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 01/23/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/10/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Completion Report
Completed Date: 06/09/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/29/2017
Comments: No revisions necessary

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/14/2018
Comments: Report accepted 03/14/2018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/16/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 12/22/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 01/30/2018
Comments: Not reported

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Installation Workplan
Completed Date:	05/15/2018
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	06/27/2018
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Completion Report
Completed Date:	09/11/2018
Comments:	COMPLETED

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	06/26/2007
Comments:	The approved workplan outlines the proposed collection of additional soil, soil gas, and groundwater samples to fill site characterization data gaps identified during an October 4, 2006 meeting and a November 16, 2007 conference call. The tasks included the installation and sampling of multidepth soil gas probes for VOC analysis, soil sampling for VOC's, SVOC's, and metals analysis, and the installation and sampling of groundwater monitoring wells for VOC's and SVOC's analysis.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	08/03/2007
Comments:	Fieldwork for implementation of workplan complete.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	09/03/2009
Comments:	Data submitted indicated further investigation needed. Completion of the PEA Report terminated. Site Characterization Workplan requested.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	01/31/2012
Comments:	Conditional approval letter submitted to PMC via their consultant on 8/31/2011. Productol's response to conditional approval received on 11/14/2011. Final approval letter submitted on 1/31/2012. Scheduling of fieldwork pending.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	03/19/2015

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

Comments: Site Characterization Report approved 3/19/2015. HHRA expected May 2015 for review and approval.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 10/25/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/30/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 06/10/2015
Comments: Meeting confirmed and attended by PM, project geologist, and unit chief.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/24/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/17/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/19/2017
Comments: REQUEST SENT

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/06/2017
Comments: Letter submitted for mailing October 6, 2017.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/15/2018
Comments: COMPLETED

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Workplan
Future Due Date: 2019
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2023
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Fact Sheets
Future Due Date: 2019
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2022
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Future Due Date: 2019
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-05119
Status: Pollution Characterization
Substance: Solvents
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603703040
W Global ID: Not reported
Staff: SLC
Local Agency: 19049
Cross Street: Not reported
Enforcement Type: Not reported
Date Leak Discovered: 8/19/1988
Date Leak First Reported: 11/17/1988
Date Leak Record Entered: Not reported
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 3/1/1993
Date the Case was Closed: Not reported
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Not reported
Operator: Not reported
Water System: Not reported
Well Name: Not reported

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

Approx. Dist To Production Well (ft):	2332.2436098049124642802646724
Source of Cleanup Funding:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	3/1/1993
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	PMC SPECIALIRT GROUP
RP Address:	SAME AS SITE
Program:	SLIC
Lat/Long:	33.9465685 / -1
Local Agency Staff:	UNK
Beneficial Use:	Not reported
Priority:	LOP/HIGH - KNOWN HEALTH/SAFETY/ENVIRONMENTAL IMPACT
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	LA COUNTY FILE #I-5119-1H REFER TO SLIC #360

CPS-SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	02/02/2015
Global Id:	SL204751665
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Lead Agency Case Number:	71002354
Latitude:	33.948132
Longitude:	-118.060401
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	SANTA FE SPRINGS, CITY OF
RB Case Number:	0360
File Location:	DTSC
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Case transferred to DTSC on April 27, 2006

Click here to access the California GeoTracker records for this facility:

VCP:

Facility ID:	60000466
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	9.1

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Laura Radke
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Site Code:	301303
Assembly:	57
Senate:	32
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	10/04/2006
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	33.94435 / -118.0609
APN:	8011-002-011, 8011-002-012, 8011-002-013, 8011-002-014, 8011-002-016, 8011-002-018, 8011-002-023, 8011-007-037, 8011-007-039, 8011-007-041, 8011002011, 8011002012, 8011002013, 8011002014, 8011002016, 8011002018, 8011002023, 8011007037, 8011007039, 8011007041
Past Use:	MANUFACTURING - CHEMICALS
Potential COC:	30003, 30024, 30025, 30230, 30387, 30392, 30394, 30451, 30484, 30577, 30578
Confirmed COC:	30484,30577,30578,30024,30025,30230,30387,30392,30394,30451,30003
Potential Description:	OTH, SOIL, SV
Alias Name:	8011-002-011
Alias Type:	APN
Alias Name:	8011-002-012
Alias Type:	APN
Alias Name:	8011-002-013
Alias Type:	APN
Alias Name:	8011-002-014
Alias Type:	APN
Alias Name:	8011-002-016
Alias Type:	APN
Alias Name:	8011-002-018
Alias Type:	APN
Alias Name:	8011-002-023
Alias Type:	APN
Alias Name:	8011-007-037
Alias Type:	APN
Alias Name:	8011-007-039
Alias Type:	APN
Alias Name:	8011-007-041
Alias Type:	APN
Alias Name:	8011002011
Alias Type:	APN
Alias Name:	8011002012
Alias Type:	APN
Alias Name:	8011002013
Alias Type:	APN
Alias Name:	8011002014
Alias Type:	APN
Alias Name:	8011002016
Alias Type:	APN
Alias Name:	8011002018
Alias Type:	APN

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

Alias Name: 8011002023
Alias Type: APN
Alias Name: 8011007037
Alias Type: APN
Alias Name: 8011007039
Alias Type: APN
Alias Name: 8011007041
Alias Type: APN
Alias Name: 110002140914
Alias Type: EPA (FRS #)
Alias Name: 110033612188
Alias Type: EPA (FRS #)
Alias Name: 301303
Alias Type: Project Code (Site Code)
Alias Name: 60000466
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 03/15/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 01/23/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/10/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Completion Report
Completed Date: 06/09/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/29/2017
Comments: No revisions necessary

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/14/2018
Comments: Report accepted 03/14/2018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/16/2018

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	12/22/2017
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	01/30/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Installation Workplan
Completed Date:	05/15/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	06/27/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Completion Report
Completed Date:	09/11/2018
Comments:	COMPLETED
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	06/26/2007
Comments:	The approved workplan outlines the proposed collection of additional soil, soil gas, and groundwater samples to fill site characterization data gaps identified during an October 4, 2006 meeting and a November 16, 2007 conference call. The tasks included the installation and sampling of multidepth soil gas probes for VOC analysis, soil sampling for VOC's, SVOC's, and metals analysis, and the installation and sampling of groundwater monitoring wells for VOC's and SVOC's analysis.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	08/03/2007
Comments:	Fieldwork for implementation of workplan complete.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	09/03/2009
Comments:	Data submitted indicated further investigation needed. Completion of the PEA Report terminated. Site Characterization Workplan requested.

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 01/31/2012
Comments: Conditional approval letter submitted to PMC via their consultant on 8/31/2011. Productol's response to conditional approval received on 11/14/2011. Final approval letter submitted on 1/31/2012. Scheduling of fieldwork pending.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/19/2015
Comments: Site Characterization Report approved 3/19/2015. HHRA expected May 2015 for review and approval.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 10/25/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/30/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 06/10/2015
Comments: Meeting confirmed and attended by PM, project geologist, and unit chief.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/24/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/17/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/19/2017
Comments: REQUEST SENT

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2016

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/06/2017
Comments:	Letter submitted for mailing October 6, 2017.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	08/15/2018
Comments:	COMPLETED
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Workplan
Future Due Date:	2019
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2023
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Fact Sheets
Future Due Date:	2019
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2022
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Future Due Date:	2019
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	800233
Air District Name:	SC
SIC Code:	2819
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	17
Reactive Organic Gases Tons/Yr:	14
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	13
SOX - Oxides of Sulphur Tons/Yr:	48
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

PMC SPECIALTIES GRP DIV PMC INC (Continued) **1000132145**

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	800233
Air District Name:	SC
SIC Code:	2819
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	55
Reactive Organic Gases Tons/Yr:	41
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	8
SOX - Oxides of Sulphur Tons/Yr:	2
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-05119

Count: 6 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SANA FE SPRINGS	S105960460	WALKER PROPERTIES	SOUTHEAST CORNER BLOOMFIELD AV	90670	CA BOND EXP. PLAN
SANTA FE SPRINGS	S103878777	STATEFARM PROPERTY	GEARY	90670	CPS-SLIC
SANTA FE SPRINGS	S103878695	STATE FARM INSURANCE	GEARY	90670	CPS-SLIC
SANTA FE SPRINGS	S106386921	SOUTHERN CALIFORNIA EDISON - WHITT	SMITH	90670	CPS-SLIC
SANTA FE SPRINGS	S103878671	MOBIL - OFRP	TELEGRAPH	90670	CPS-SLIC
SANTA FE SPRINGS	S103546752	UNOCAL - ALEXANDER FEE	TELEGRAPH	90670	CPS-SLIC

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 43

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/28/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/28/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 45

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 10/15/2018
Number of Days to Update: 20

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/18/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 09/28/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 51

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63
Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 08/31/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 45
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73
Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/09/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/26/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 36
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/14/2018
Date Data Arrived at EDR: 10/11/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 57
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/03/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 37
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/03/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/01/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 01/18/2019
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/21/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 12/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/29/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/15/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 06/19/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 87
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 21
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 08/28/2018
Date Data Arrived at EDR: 08/30/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 63
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 7
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 11/13/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 42

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 27

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/30/2018
Date Data Arrived at EDR: 09/27/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/19/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/18/2018
Date Data Arrived at EDR: 11/19/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 53

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/07/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/19/2018
Date Data Arrived at EDR: 11/19/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 53

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/19/2018
Date Data Arrived at EDR: 11/19/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/09/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 11/09/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/19/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/19/2018
Number of Days to Update: 29
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/18/2019
Number of Days to Update: 37

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 12/04/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/05/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 22

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/05/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 23

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 27

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 10/31/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 8

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 46

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 08/16/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 8

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 10/18/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 27

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 20

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 11/02/2018
Date Data Arrived at EDR: 11/07/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 37

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/21/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 15

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 11/08/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 6

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 22

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/20/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 35

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 31

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2018
Date Data Arrived at EDR: 05/01/2018
Date Made Active in Reports: 05/14/2018
Number of Days to Update: 13

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 31

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 15

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/31/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 19

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 01/09/2019
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 12/07/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/24/2019
Number of Days to Update: 44

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 12/06/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 11/01/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 15

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/27/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/21/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 11/28/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/06/2018
Date Data Arrived at EDR: 11/08/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 6

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/06/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 07/19/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 4

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 11/05/2018
Number of Days to Update: 24

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/03/2018
Date Data Arrived at EDR: 10/02/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 30

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/23/2018
Date Data Arrived at EDR: 10/02/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 31

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 11/15/2018
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 27

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/28/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 42

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/14/2018
Date Data Arrived at EDR: 11/15/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 28

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/23/2019
Number of Days to Update: 36

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/16/2018
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/21/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 10

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 12/21/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 10/25/2018
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 12/13/2018
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/25/2018
Number of Days to Update: 35

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 36

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/07/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/25/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 36
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 35
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 13
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/07/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 7
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/04/2018
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/01/2018
Date Data Arrived at EDR: 10/31/2018
Date Made Active in Reports: 12/20/2018
Number of Days to Update: 50

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/30/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/07/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

9920 PIONEER BLVD
9920 PIONEER BLVD
SANTA FE SPRINGS, CA 90670

TARGET PROPERTY COORDINATES

Latitude (North):	33.946351 - 33° 56' 46.86''
Longitude (West):	118.079047 - 118° 4' 44.57''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	400285.3
UTM Y (Meters):	3756537.5
Elevation:	130 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5633777 WHITTIER, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

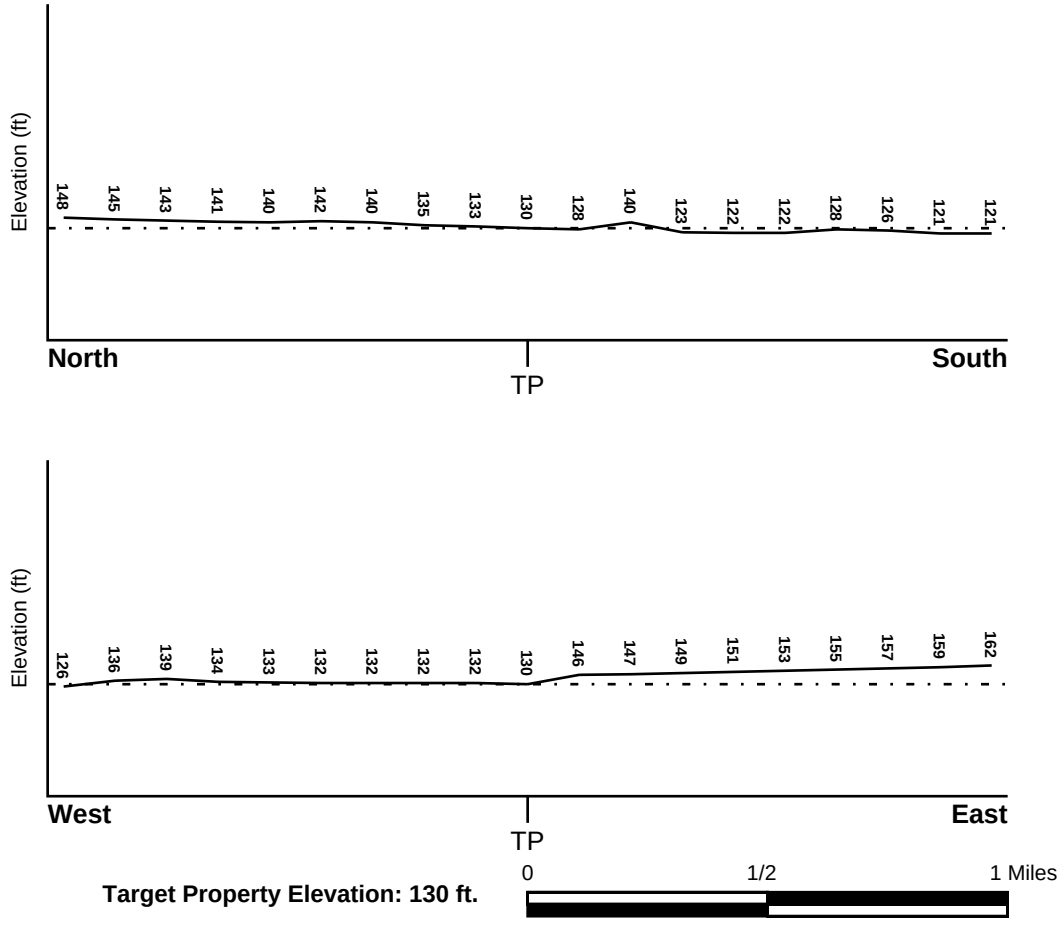
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 130 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1829F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1830F	FEMA FIRM Flood data
06037C1835F	FEMA FIRM Flood data
06037C1837F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
WHITTIER	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1 - 2 Miles SSE
Site Name:	Powerine Oil Co
Site EPA ID Number:	CAD008383291
Groundwater Flow Direction:	South
Inferred Depth to Water:	70 to 110 feet in the shallow aquifer.
Hydraulic Connection:	The shallow and deeper aquifers are considered to be hydraulically connected in the site vicinity.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
17	1/2 - 1 Mile SSE	SSW
1G	1/2 - 1 Mile SSE	SSW

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
sandy loam
gravelly - sandy loam
silt loam
clay
fine sand
gravelly - sand
sand
fine sandy loam

Surficial Soil Types:
sandy loam
gravelly - sandy loam
silt loam
clay
fine sand
gravelly - sand
sand
fine sandy loam

Shallow Soil Types:
fine sandy loam
gravelly - loam
sandy clay
sandy clay loam
clay
silty clay
sand

Deeper Soil Types:
gravelly - sandy loam
sandy loam
very gravelly - sandy loam
stratified
very fine sandy loam
weathered bedrock
sand
gravelly - fine sandy loam
silty clay loam
clay loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000139193	0 - 1/8 Mile South
A3	USGS40000139208	0 - 1/8 Mile South
C6	USGS40000139170	1/2 - 1 Mile SE
C7	USGS40000139171	1/2 - 1 Mile SE
D8	USGS40000139224	1/2 - 1 Mile ENE
D9	USGS40000139225	1/2 - 1 Mile ENE
11	USGS40000139172	1/2 - 1 Mile SW
12	USGS40000139146	1/2 - 1 Mile South
13	USGS40000139134	1/2 - 1 Mile South
F16	USGS40000139180	1/2 - 1 Mile WSW
F18	USGS40000139181	1/2 - 1 Mile WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	3859	0 - 1/8 Mile South
B4	2862	1/4 - 1/2 Mile NW
B5	2902	1/4 - 1/2 Mile NW
D10	2775	1/2 - 1 Mile ENE
E14	3913	1/2 - 1 Mile SSW
E15	3950	1/2 - 1 Mile SSW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CAOG11000211449	0 - 1/8 Mile ENE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	CAOG11000211448	0 - 1/8 Mile NE
A3	CAOG11000211439	0 - 1/8 Mile NE
A4	CAOG11000211440	0 - 1/8 Mile NE
A5	CAOG11000211664	0 - 1/8 Mile SE
A6	CAOG11000211665	0 - 1/8 Mile SE
B7	CAOG11000211444	0 - 1/8 Mile West
C8	CAOG11000211435	0 - 1/8 Mile SSW
A9	CAOG11000211451	0 - 1/8 Mile NNE
C10	CAOG11000211433	0 - 1/8 Mile South
B11	CAOG11000211452	0 - 1/8 Mile NW
D12	CAOG11000211438	0 - 1/8 Mile NNE
A13	CAOG11000211474	0 - 1/8 Mile ENE
B14	CAOG11000211430	0 - 1/8 Mile SW
C15	CAOG11000211428	0 - 1/8 Mile South
E16	CAOG11000192509	0 - 1/8 Mile East
D17	CAOG11000211175	1/8 - 1/4 Mile NE
F18	CAOG11000211477	1/8 - 1/4 Mile SSE
D19	CAOG11000211291	1/8 - 1/4 Mile ENE
D20	CAOG11000211181	1/8 - 1/4 Mile NE
E21	CAOG11000211481	1/8 - 1/4 Mile ESE
E22	CAOG11000192508	1/8 - 1/4 Mile East
F23	CAOG11000211476	1/8 - 1/4 Mile SE
G24	CAOG11000211443	1/8 - 1/4 Mile WNW
C25	CAOG11000211269	1/8 - 1/4 Mile South
E26	CAOG11000211694	1/8 - 1/4 Mile ESE
C27	CAOG11000211262	1/8 - 1/4 Mile South
H28	CAOG11000211434	1/8 - 1/4 Mile WSW
E29	CAOG11000211188	1/8 - 1/4 Mile East
E30	CAOG11000211178	1/8 - 1/4 Mile East
H31	CAOG11000211257	1/8 - 1/4 Mile SW
D32	CAOG11000211442	1/8 - 1/4 Mile NNE
H33	CAOG11000211270	1/8 - 1/4 Mile WSW
F34	CAOG11000192571	1/8 - 1/4 Mile South
G35	CAOG11000211427	1/8 - 1/4 Mile West
D36	CAOG11000211450	1/8 - 1/4 Mile NNE
D37	CAOG11000211437	1/8 - 1/4 Mile NNE
E38	CAOG11000211294	1/8 - 1/4 Mile East
I39	CAOG11000211290	1/8 - 1/4 Mile NE
J40	CAOG11000192572	1/8 - 1/4 Mile South
F41	CAOG11000211479	1/8 - 1/4 Mile SE
I42	CAOG11000211174	1/8 - 1/4 Mile NE
H43	CAOG11000206870	1/8 - 1/4 Mile WSW
I44	CAOG11000211190	1/8 - 1/4 Mile ENE
F45	CAOG11000211475	1/8 - 1/4 Mile SE
K46	CAOG11000211441	1/8 - 1/4 Mile North
F47	CAOG11000211600	1/8 - 1/4 Mile SSE
L48	CAOG11000192465	1/8 - 1/4 Mile ESE
L49	CAOG11000211183	1/8 - 1/4 Mile East
M50	CAOG11000211263	1/8 - 1/4 Mile SW
L51	CAOG11000192463	1/8 - 1/4 Mile ESE
H52	CAOG11000206869	1/8 - 1/4 Mile WSW
L53	CAOG11000211296	1/8 - 1/4 Mile ESE
N54	CAOG11000211611	1/8 - 1/4 Mile SSE
O55	CAOG11000211295	1/8 - 1/4 Mile SE
I56	CAOG11000211628	1/8 - 1/4 Mile NNE
I57	CAOG11000211623	1/8 - 1/4 Mile NNE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
J58	CAOG11000211693	1/8 - 1/4 Mile South
P59	CAOG11000211685	1/8 - 1/4 Mile NNE
J60	CAOG11000211275	1/8 - 1/4 Mile South
M61	CAOG11000206860	1/8 - 1/4 Mile SW
L62	CAOG11000211297	1/8 - 1/4 Mile ESE
I63	CAOG11000211419	1/8 - 1/4 Mile NNE
K64	CAOG11000211446	1/8 - 1/4 Mile NNW
K65	CAOG11000211469	1/8 - 1/4 Mile North
K66	CAOG11000211411	1/8 - 1/4 Mile North
Q67	CAOG11000211191	1/8 - 1/4 Mile East
M68	CAOG11000211271	1/8 - 1/4 Mile SSW
R69	CAOG11000211445	1/8 - 1/4 Mile WNW
M70	CAOG11000211689	1/8 - 1/4 Mile SW
J71	CAOG11000192575	1/8 - 1/4 Mile South
I72	CAOG11000211413	1/8 - 1/4 Mile NE
Q73	CAOG11000211292	1/8 - 1/4 Mile ENE
J74	CAOG11000192574	1/4 - 1/2 Mile South
Q75	CAOG11000211187	1/4 - 1/2 Mile ENE
S76	CAOG11000211189	1/4 - 1/2 Mile ENE
P77	CAOG11000211625	1/4 - 1/2 Mile North
Q78	CAOG11000211179	1/4 - 1/2 Mile East
P79	CAOG11000211414	1/4 - 1/2 Mile NE
T80	CAOG11000211273	1/4 - 1/2 Mile South
O81	CAOG11000211478	1/4 - 1/2 Mile SE
U82	CAOG11000211429	1/4 - 1/2 Mile West
Q83	CAOG11000192464	1/4 - 1/2 Mile East
N84	CAOG11000211604	1/4 - 1/2 Mile SSE
M85	CAOG11000211690	1/4 - 1/2 Mile SW
L86	CAOG11000192468	1/4 - 1/2 Mile ESE
N87	CAOG11000211620	1/4 - 1/2 Mile SSE
L88	CAOG11000211508	1/4 - 1/2 Mile East
S89	CAOG11000211289	1/4 - 1/2 Mile ENE
T90	CAOG11000192573	1/4 - 1/2 Mile South
L91	CAOG11000211511	1/4 - 1/2 Mile East
N92	CAOG11000211609	1/4 - 1/2 Mile SSE
U93	CAOG11000211545	1/4 - 1/2 Mile West
O94	CAOG11000211480	1/4 - 1/2 Mile SE
T95	CAOG11000211261	1/4 - 1/2 Mile South
S96	CAOG11000211177	1/4 - 1/2 Mile ENE
T97	CAOG11000211692	1/4 - 1/2 Mile South
O98	CAOG11000211276	1/4 - 1/2 Mile SE
99	CAOG11000211472	1/4 - 1/2 Mile NNW
V100	CAOG11000211283	1/4 - 1/2 Mile ESE
W101	CAOG11000211614	1/4 - 1/2 Mile SE
O102	CAOG11000211473	1/4 - 1/2 Mile SE
V103	CAOG11000211285	1/4 - 1/2 Mile ESE
X104	CAOG11000211691	1/4 - 1/2 Mile SW
Y105	CAOG11000211601	1/4 - 1/2 Mile South
Z106	CAOG11000211470	1/4 - 1/2 Mile North
S107	CAOG11000211418	1/4 - 1/2 Mile NE
V108	CAOG11000210968	1/4 - 1/2 Mile ESE
AA109	CAOG11000211267	1/4 - 1/2 Mile SSW
P110	CAOG11000211624	1/4 - 1/2 Mile NNE
111	CAOG11000211547	1/4 - 1/2 Mile WSW
Y112	CAOG11000211602	1/4 - 1/2 Mile South
V113	CAOG11000211512	1/4 - 1/2 Mile East

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AB114	CAOG11000211675	1/4 - 1/2 Mile NNE
AA115	CAOG11000211272	1/4 - 1/2 Mile SSW
Q116	CAOG11000211176	1/4 - 1/2 Mile East
V117	CAOG11000211166	1/4 - 1/2 Mile ESE
R118	CAOG11000211432	1/4 - 1/2 Mile WNW
S119	CAOG11000211416	1/4 - 1/2 Mile NE
Y120	CAOG11000211615	1/4 - 1/2 Mile South
AB121	CAOG11000210414	1/4 - 1/2 Mile NNE
T122	CAOG11000211265	1/4 - 1/2 Mile South
Q123	CAOG11000211192	1/4 - 1/2 Mile East
V124	CAOG11000192467	1/4 - 1/2 Mile ESE
AB125	CAOG11000211677	1/4 - 1/2 Mile NNE
X126	CAOG11000210965	1/4 - 1/2 Mile SW
V127	CAOG11000192466	1/4 - 1/2 Mile ESE
AC128	CAOG11000211173	1/4 - 1/2 Mile East
AA129	CAOG11000211546	1/4 - 1/2 Mile SSW
W130	CAOG11000211619	1/4 - 1/2 Mile SE
AD131	CAOG11000211186	1/4 - 1/2 Mile ENE
AC132	CAOG11000211509	1/4 - 1/2 Mile East
AC133	CAOG11000211184	1/4 - 1/2 Mile East
W134	CAOG11000192569	1/4 - 1/2 Mile SSE
W135	CAOG11000211597	1/4 - 1/2 Mile SE
Y136	CAOG11000192570	1/4 - 1/2 Mile South
AC137	CAOG11000211293	1/4 - 1/2 Mile ENE
Y138	CAOG11000194166	1/4 - 1/2 Mile SSE
W139	CAOG11000211621	1/4 - 1/2 Mile SE
AC140	CAOG11000211182	1/4 - 1/2 Mile ENE
AD141	CAOG11000211180	1/4 - 1/2 Mile ENE
AC142	CAOG11000211507	1/4 - 1/2 Mile East
AC143	CAOG11000211510	1/4 - 1/2 Mile East
AC144	CAOG11000211185	1/4 - 1/2 Mile ENE
Y145	CAOG11000211616	1/4 - 1/2 Mile SSE
AE146	CAOG11000210967	1/4 - 1/2 Mile SE
V147	CAOG11000211284	1/4 - 1/2 Mile ESE
AF148	CAOG11000211607	1/4 - 1/2 Mile South
AF149	CAOG11000211274	1/4 - 1/2 Mile South
X150	CAOG11000211549	1/4 - 1/2 Mile SW
W151	CAOG11000211622	1/4 - 1/2 Mile SE
AG152	CAOG11000211447	1/4 - 1/2 Mile WNW
AH153	CAOG11000211431	1/4 - 1/2 Mile WNW
AD154	CAOG11000211172	1/4 - 1/2 Mile ENE
AD155	CAOG11000211558	1/4 - 1/2 Mile ENE
AE156	CAOG11000210969	1/4 - 1/2 Mile SE
V157	CAOG11000211282	1/4 - 1/2 Mile ESE
Z158	CAOG11000211471	1/4 - 1/2 Mile North
AI159	CAOG11000211680	1/4 - 1/2 Mile NE
AJ160	CAOG11000211608	1/4 - 1/2 Mile SSE
AK161	CAOG11000192458	1/4 - 1/2 Mile ESE
AF162	CAOG11000211617	1/4 - 1/2 Mile South
AL163	CAOG11000211626	1/4 - 1/2 Mile NNE
AF164	CAOG11000211266	1/4 - 1/2 Mile South
AK165	CAOG11000210970	1/4 - 1/2 Mile ESE
AI166	CAOG11000211678	1/4 - 1/2 Mile NE
AK167	CAOG11000210966	1/4 - 1/2 Mile ESE
AM168	CAOG11000211260	1/4 - 1/2 Mile SSW
AD169	CAOG11000211412	1/4 - 1/2 Mile ENE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
170	CAOG11000210456	1/4 - 1/2 Mile WSW
AH171	CAOG11000210963	1/4 - 1/2 Mile West
AD172	CAOG11000211417	1/4 - 1/2 Mile NE
AJ173	CAOG11000211610	1/4 - 1/2 Mile SSE
AE174	CAOG11000211487	1/4 - 1/2 Mile SE
AD175	CAOG11000211415	1/4 - 1/2 Mile ENE
AK176	CAOG11000192457	1/4 - 1/2 Mile ESE
AC177	CAOG11000211821	1/4 - 1/2 Mile East
AC178	CAOG11000211823	1/4 - 1/2 Mile East
AC179	CAOG11000211818	1/4 - 1/2 Mile East
AE180	CAOG11000211167	1/4 - 1/2 Mile SE
AJ181	CAOG11000211618	1/4 - 1/2 Mile SSE
AN182	CAOG11000211032	1/4 - 1/2 Mile East
AI183	CAOG11000210407	1/4 - 1/2 Mile NE
AK184	CAOG11000211313	1/4 - 1/2 Mile ESE
AO185	CAOG11000211824	1/4 - 1/2 Mile ENE
AM186	CAOG11000211543	1/4 - 1/2 Mile SSW
AC187	CAOG11000211831	1/4 - 1/2 Mile East
AE188	CAOG11000210928	1/4 - 1/2 Mile SE
AJ189	CAOG11000211603	1/4 - 1/2 Mile SSE
AN190	CAOG11000211866	1/4 - 1/2 Mile East
AJ191	CAOG11000211613	1/4 - 1/2 Mile SSE
AN192	CAOG11000211867	1/4 - 1/2 Mile East
AO193	CAOG11000211822	1/4 - 1/2 Mile ENE
AN194	CAOG11000211031	1/4 - 1/2 Mile ESE
AP195	CAOG11000210457	1/4 - 1/2 Mile WSW
AO196	CAOG11000211827	1/4 - 1/2 Mile ENE
AO197	CAOG11000211056	1/4 - 1/2 Mile ENE
AN198	CAOG11000211839	1/4 - 1/2 Mile ESE
AN199	CAOG11000211836	1/4 - 1/2 Mile ESE
AI200	CAOG11000211679	1/4 - 1/2 Mile NE
AF201	CAOG11000200685	1/4 - 1/2 Mile South
AG202	CAOG11000211424	1/4 - 1/2 Mile WNW
AQ203	CAOG11000211837	1/4 - 1/2 Mile ESE
AJ204	CAOG11000211493	1/4 - 1/2 Mile SE
AR205	CAOG11000211676	1/4 - 1/2 Mile NNE
AF206	CAOG11000211606	1/4 - 1/2 Mile South
AH207	CAOG11000211423	1/4 - 1/2 Mile WNW
AS208	CAOG11000211681	1/4 - 1/2 Mile NE
AL209	CAOG11000211627	1/4 - 1/2 Mile NNE
AT210	CAOG11000211489	1/4 - 1/2 Mile SE
AU211	CAOG11000211828	1/4 - 1/2 Mile ENE
AT212	CAOG11000211312	1/4 - 1/2 Mile SE
AJ213	CAOG11000211490	1/4 - 1/2 Mile SSE
AV214	CAOG11000211268	1/4 - 1/2 Mile South
AW215	CAOG11000211548	1/4 - 1/2 Mile SW
AK216	CAOG11000211835	1/4 - 1/2 Mile ESE
AK217	CAOG11000211832	1/4 - 1/2 Mile ESE
AT218	CAOG11000210971	1/4 - 1/2 Mile SE
AU219	CAOG11000211055	1/4 - 1/2 Mile ENE
AM220	CAOG11000211259	1/4 - 1/2 Mile SSW
AT221	CAOG11000206866	1/4 - 1/2 Mile SE
AX222	CAOG11000211488	1/4 - 1/2 Mile SSE
AQ223	CAOG11000211833	1/4 - 1/2 Mile ESE
AO224	CAOG11000211819	1/4 - 1/2 Mile East
AU225	CAOG11000211817	1/4 - 1/2 Mile ENE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AY226	CAOG11000211825	1/4 - 1/2 Mile East
AP227	CAOG11000211544	1/4 - 1/2 Mile SW
AY228	CAOG11000211829	1/4 - 1/2 Mile East
AZ229	CAOG11000211869	1/4 - 1/2 Mile SSW
BA230	CAOG11000211660	1/4 - 1/2 Mile West
AZ231	CAOG11000211226	1/4 - 1/2 Mile SSW
AO232	CAOG11000211826	1/4 - 1/2 Mile ENE
233	CAOG11000211420	1/4 - 1/2 Mile West
BA234	CAOG11000211663	1/4 - 1/2 Mile West
AN235	CAOG11000210991	1/4 - 1/2 Mile East
BB236	CAOG11000192343	1/4 - 1/2 Mile SE
BB237	CAOG11000211834	1/4 - 1/2 Mile ESE
AU238	CAOG11000211820	1/4 - 1/2 Mile ENE
AS239	CAOG11000211674	1/4 - 1/2 Mile NE
BB240	CAOG11000211030	1/4 - 1/2 Mile ESE
AQ241	CAOG11000211009	1/4 - 1/2 Mile East
AS242	CAOG11000211027	1/4 - 1/2 Mile NE
AT243	CAOG11000211483	1/4 - 1/2 Mile SE
AN244	CAOG11000210981	1/4 - 1/2 Mile East
BA245	CAOG11000211661	1/4 - 1/2 Mile WSW
AW246	CAOG11000211870	1/4 - 1/2 Mile SSW
AN247	CAOG11000210999	1/4 - 1/2 Mile East
AQ248	CAOG11000210990	1/4 - 1/2 Mile ESE
BB249	CAOG11000211838	1/4 - 1/2 Mile ESE
AW250	CAOG11000210964	1/4 - 1/2 Mile SW
BC251	CAOG11000211599	1/4 - 1/2 Mile South
AY252	CAOG11000211012	1/4 - 1/2 Mile East
AT253	CAOG11000211484	1/4 - 1/2 Mile SE
BC254	CAOG11000211598	1/4 - 1/2 Mile South
BB255	CAOG11000210907	1/4 - 1/2 Mile SE
AQ256	CAOG11000210980	1/4 - 1/2 Mile ESE
BD257	CAOG11000211830	1/4 - 1/2 Mile ENE
AV258	CAOG11000211605	1/4 - 1/2 Mile South
AR259	CAOG11000211277	1/4 - 1/2 Mile NNE
AX260	CAOG11000211496	1/4 - 1/2 Mile SSE
BB262	CAOG11000192346	1/4 - 1/2 Mile SE
BB261	CAOG11000192345	1/4 - 1/2 Mile SE
AQ263	CAOG11000211006	1/4 - 1/2 Mile ESE
AQ264	CAOG11000210995	1/4 - 1/2 Mile ESE
AT265	CAOG11000211495	1/4 - 1/2 Mile SE
AZ266	CAOG11000211258	1/4 - 1/2 Mile SSW
AW267	CAOG11000211871	1/4 - 1/2 Mile SSW
AV268	CAOG11000211264	1/4 - 1/2 Mile South
BE269	CAOG11000210989	1/4 - 1/2 Mile ESE
BF270	CAOG11000211596	1/4 - 1/2 Mile SSE
BB271	CAOG11000210906	1/4 - 1/2 Mile ESE
AX272	CAOG11000211682	1/4 - 1/2 Mile SSE
273	CAOG11000211376	1/4 - 1/2 Mile WNW
AZ274	CAOG11000211134	1/4 - 1/2 Mile SSW
275	CAOG11000211659	1/2 - 1 Mile WSW
BE276	CAOG11000211011	1/2 - 1 Mile ESE
BB277	CAOG11000210921	1/2 - 1 Mile ESE
BG278	CAOG11000211008	1/2 - 1 Mile East
BB279	CAOG11000215210	1/2 - 1 Mile SE
BH280	CAOG11000211278	1/2 - 1 Mile NE
BE281	CAOG11000211017	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
BB282	CAOG11000192344	1/2 - 1 Mile SE
BF283	CAOG11000211612	1/2 - 1 Mile SSE
BE284	CAOG11000210997	1/2 - 1 Mile ESE
BH285	CAOG11000211629	1/2 - 1 Mile NE
BF286	CAOG11000211485	1/2 - 1 Mile SSE
BI287	CAOG11000211110	1/2 - 1 Mile SE
BB288	CAOG11000210916	1/2 - 1 Mile SE
BE289	CAOG11000210979	1/2 - 1 Mile ESE
BB290	CAOG11000192358	1/2 - 1 Mile SE
BJ291	CAOG11000211872	1/2 - 1 Mile SW
BE292	CAOG11000210986	1/2 - 1 Mile ESE
BK293	CAOG11000211494	1/2 - 1 Mile SE
BL294	CAOG11000190603	1/2 - 1 Mile East
BL295	CAOG11000190604	1/2 - 1 Mile East
BM296	CAOG11000192357	1/2 - 1 Mile ESE
BI297	CAOG11000211111	1/2 - 1 Mile SE
BM298	CAOG11000192361	1/2 - 1 Mile ESE
BM299	CAOG11000192362	1/2 - 1 Mile ESE
BF300	CAOG11000192337	1/2 - 1 Mile SSE
BF301	CAOG11000211630	1/2 - 1 Mile SSE
BN302	CAOG11000192336	1/2 - 1 Mile South
BI303	CAOG11000210917	1/2 - 1 Mile SE
BM305	CAOG11000192360	1/2 - 1 Mile ESE
BM304	CAOG11000192359	1/2 - 1 Mile ESE
306	CAOG11000211662	1/2 - 1 Mile West
BI307	CAOG11000211112	1/2 - 1 Mile SE
BN308	CAOG11000210949	1/2 - 1 Mile South
BD309	CAOG11000190622	1/2 - 1 Mile ENE
BH310	CAOG11000211026	1/2 - 1 Mile NE
BL311	CAOG11000190617	1/2 - 1 Mile East
BL312	CAOG11000190618	1/2 - 1 Mile East
BK313	CAOG11000211492	1/2 - 1 Mile SE
BC314	CAOG11000192335	1/2 - 1 Mile South
BI315	CAOG11000210910	1/2 - 1 Mile SE
BM316	CAOG11000192454	1/2 - 1 Mile ESE
BG317	CAOG11000210982	1/2 - 1 Mile East
BG318	CAOG11000210983	1/2 - 1 Mile East
319	CAOG11000211421	1/2 - 1 Mile West
BN320	CAOG11000210946	1/2 - 1 Mile SSW
BF321	CAOG11000192334	1/2 - 1 Mile South
322	CAOG11000211255	1/2 - 1 Mile SW
BJ323	CAOG11000211135	1/2 - 1 Mile SSW
BM324	CAOG11000192455	1/2 - 1 Mile ESE
BM325	CAOG11000210920	1/2 - 1 Mile ESE
BE326	CAOG11000211013	1/2 - 1 Mile ESE
BL327	CAOG11000192117	1/2 - 1 Mile East
BD329	CAOG11000188584	1/2 - 1 Mile ENE
BD328	CAOG11000188583	1/2 - 1 Mile ENE
BL330	CAOG11000190630	1/2 - 1 Mile East
BL331	CAOG11000190631	1/2 - 1 Mile East
BI332	CAOG11000210445	1/2 - 1 Mile SE
BN333	CAOG11000210972	1/2 - 1 Mile South
BM334	CAOG11000211378	1/2 - 1 Mile ESE
BI335	CAOG11000192355	1/2 - 1 Mile SE
BO336	CAOG11000211486	1/2 - 1 Mile SSE
BG337	CAOG11000211000	1/2 - 1 Mile East

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
BE338	CAOG11000211015	1/2 - 1 Mile ESE
BI339	CAOG11000210938	1/2 - 1 Mile SE
BG340	CAOG11000211001	1/2 - 1 Mile East
BG341	CAOG11000211002	1/2 - 1 Mile East
BM342	CAOG11000210435	1/2 - 1 Mile ESE
BM343	CAOG11000211163	1/2 - 1 Mile ESE
BM344	CAOG11000210432	1/2 - 1 Mile ESE
BP345	CAOG11000192125	1/2 - 1 Mile ENE
BP347	CAOG11000192127	1/2 - 1 Mile ENE
BP346	CAOG11000192126	1/2 - 1 Mile ENE
BQ348	CAOG11000210984	1/2 - 1 Mile ESE
BM349	CAOG11000210433	1/2 - 1 Mile ESE
BF350	CAOG11000210462	1/2 - 1 Mile SSE
BG351	CAOG11000211007	1/2 - 1 Mile ESE
BG352	CAOG11000210993	1/2 - 1 Mile East
BM353	CAOG11000192144	1/2 - 1 Mile ESE
BM354	CAOG11000211164	1/2 - 1 Mile ESE
BF355	CAOG11000206882	1/2 - 1 Mile SSE
BO356	CAOG11000211635	1/2 - 1 Mile SSE
BE357	CAOG11000210987	1/2 - 1 Mile ESE
BR358	CAOG11000211398	1/2 - 1 Mile SSW
BQ359	CAOG11000211014	1/2 - 1 Mile ESE
BM360	CAOG11000210978	1/2 - 1 Mile ESE
BF361	CAOG11000211631	1/2 - 1 Mile SSE
BI362	CAOG11000211144	1/2 - 1 Mile SE
BK363	CAOG11000211875	1/2 - 1 Mile SE
BQ364	CAOG11000210998	1/2 - 1 Mile ESE
BM365	CAOG11000210434	1/2 - 1 Mile ESE
BI366	CAOG11000210428	1/2 - 1 Mile SE
BI367	CAOG11000211125	1/2 - 1 Mile SE
BN368	CAOG11000210898	1/2 - 1 Mile South
BS369	CAOG11000206881	1/2 - 1 Mile SSE
BK370	CAOG11000206862	1/2 - 1 Mile SE
BQ371	CAOG11000211005	1/2 - 1 Mile ESE
BI372	CAOG11000210880	1/2 - 1 Mile SE
BI373	CAOG11000206880	1/2 - 1 Mile SE
BT375	CAOG11000192339	1/2 - 1 Mile South
BT374	CAOG11000192338	1/2 - 1 Mile South
BN376	CAOG11000210950	1/2 - 1 Mile South
BJ377	CAOG11000210466	1/2 - 1 Mile SW
BM378	CAOG11000210394	1/2 - 1 Mile SE
BM379	CAOG11000211461	1/2 - 1 Mile ESE
BM380	CAOG11000211465	1/2 - 1 Mile ESE
BI381	CAOG11000210393	1/2 - 1 Mile SE
BU382	CAOG11000210976	1/2 - 1 Mile East
BI383	CAOG11000211876	1/2 - 1 Mile SE
BI384	CAOG11000210923	1/2 - 1 Mile SE
BK385	CAOG11000210864	1/2 - 1 Mile SE
BM386	CAOG11000192102	1/2 - 1 Mile SE
BV387	CAOG11000211640	1/2 - 1 Mile NE
BI388	CAOG11000210924	1/2 - 1 Mile SE
BK389	CAOG11000211482	1/2 - 1 Mile SE
BO390	CAOG11000211633	1/2 - 1 Mile SSE
BK391	CAOG11000211491	1/2 - 1 Mile SE
BT392	CAOG11000210899	1/2 - 1 Mile South
BO393	CAOG11000206883	1/2 - 1 Mile SSE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
BW394	CAOG11000210869	1/2 - 1 Mile SE
BM395	CAOG11000211287	1/2 - 1 Mile ESE
BV396	CAOG11000211688	1/2 - 1 Mile NE
BI397	CAOG11000210922	1/2 - 1 Mile SE
BI398	CAOG11000210942	1/2 - 1 Mile SE
BQ399	CAOG11000210992	1/2 - 1 Mile ESE
BK400	CAOG11000210865	1/2 - 1 Mile SE
BW401	CAOG11000210878	1/2 - 1 Mile SE
BK402	CAOG11000210378	1/2 - 1 Mile SE
BI403	CAOG11000211120	1/2 - 1 Mile SE
BR404	CAOG11000210947	1/2 - 1 Mile SSW
BQ406	CAOG11000211004	1/2 - 1 Mile ESE
BQ405	CAOG11000211003	1/2 - 1 Mile ESE
BI407	CAOG11000211118	1/2 - 1 Mile SE
BU408	CAOG11000211010	1/2 - 1 Mile East
BS409	CAOG11000192349	1/2 - 1 Mile SSE
BQ410	CAOG11000210985	1/2 - 1 Mile ESE
BI411	CAOG11000210943	1/2 - 1 Mile SE
BX412	CAOG11000210925	1/2 - 1 Mile SE
BM413	CAOG11000210440	1/2 - 1 Mile ESE
BK414	CAOG11000210376	1/2 - 1 Mile SE
BY415	CAOG11000210996	1/2 - 1 Mile ESE
BS416	CAOG11000210463	1/2 - 1 Mile SSE
BX417	CAOG11000211165	1/2 - 1 Mile SE
BO418	CAOG11000206884	1/2 - 1 Mile SSE
BX419	CAOG11000210438	1/2 - 1 Mile ESE
BW420	CAOG11000210944	1/2 - 1 Mile SE
BT421	CAOG11000210897	1/2 - 1 Mile South
BO422	CAOG11000211281	1/2 - 1 Mile SSE
BX423	CAOG11000210892	1/2 - 1 Mile SE
BW424	CAOG11000211129	1/2 - 1 Mile SE
BW425	CAOG11000211119	1/2 - 1 Mile SE
BZ426	CAOG11000190645	1/2 - 1 Mile ENE
BY427	CAOG11000210994	1/2 - 1 Mile ESE
BX428	CAOG11000192456	1/2 - 1 Mile ESE
BS429	CAOG11000211308	1/2 - 1 Mile SSE
CA430	CAOG11000210398	1/2 - 1 Mile East
BO431	CAOG11000210890	1/2 - 1 Mile SSE
BW432	CAOG11000211127	1/2 - 1 Mile SE
BW433	CAOG11000211667	1/2 - 1 Mile SE
BW435	CAOG11000211099	1/2 - 1 Mile SE
BW434	CAOG11000211098	1/2 - 1 Mile SE
BO436	CAOG11000211137	1/2 - 1 Mile SSE
BX437	CAOG11000210437	1/2 - 1 Mile SE
BS438	CAOG11000192350	1/2 - 1 Mile SSE
BX439	CAOG11000210419	1/2 - 1 Mile SE
BW440	CAOG11000210413	1/2 - 1 Mile SE
BY441	CAOG11000211016	1/2 - 1 Mile ESE
BW442	CAOG11000211069	1/2 - 1 Mile SE
BW443	CAOG11000210377	1/2 - 1 Mile SE
BW444	CAOG11000194174	1/2 - 1 Mile SE
445	CAOG11000211400	1/2 - 1 Mile SSW
BY446	CAOG11000210988	1/2 - 1 Mile ESE
BQ447	CAOG11000211019	1/2 - 1 Mile East
BW449	CAOG11000190602	1/2 - 1 Mile SE
BW448	CAOG11000190601	1/2 - 1 Mile SE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
BX450	CAOG11000211522	1/2 - 1 Mile ESE
BW451	CAOG11000210871	1/2 - 1 Mile SE
BY452	CAOG11000210977	1/2 - 1 Mile ESE
BW453	CAOG11000211116	1/2 - 1 Mile SE
BS454	CAOG11000211309	1/2 - 1 Mile SSE
BR455	CAOG11000211639	1/2 - 1 Mile SSW
BX456	CAOG11000210430	1/2 - 1 Mile SE
BX457	CAOG11000211409	1/2 - 1 Mile SE
BZ458	CAOG11000210400	1/2 - 1 Mile ENE
BW459	CAOG11000211067	1/2 - 1 Mile SE
CB460	CAOG11000206888	1/2 - 1 Mile SSE
BU461	CAOG11000188588	1/2 - 1 Mile East
BW462	CAOG11000211130	1/2 - 1 Mile SE
BY463	CAOG11000192507	1/2 - 1 Mile ESE
CC464	CAOG11000210951	1/2 - 1 Mile South
CB465	CAOG11000211632	1/2 - 1 Mile SSE
BW466	CAOG11000211117	1/2 - 1 Mile SE
CB467	CAOG11000211311	1/2 - 1 Mile SSE
BX468	CAOG11000192500	1/2 - 1 Mile SE
BX469	CAOG11000192501	1/2 - 1 Mile SE
CD470	CAOG11000211038	1/2 - 1 Mile ESE
BW471	CAOG11000206873	1/2 - 1 Mile SE
472	CAOG11000211256	1/2 - 1 Mile SW
BY473	CAOG11000211018	1/2 - 1 Mile ESE
BX474	CAOG11000210436	1/2 - 1 Mile SE
CE475	CAOG11000211399	1/2 - 1 Mile SSW
CB476	CAOG11000211280	1/2 - 1 Mile SSE
BY477	CAOG11000200676	1/2 - 1 Mile ESE
CC478	CAOG11000210948	1/2 - 1 Mile SSW
BY479	CAOG11000211288	1/2 - 1 Mile ESE
CF480	CAOG11000192352	1/2 - 1 Mile SSE
BU481	CAOG11000192104	1/2 - 1 Mile East
BX482	CAOG11000210439	1/2 - 1 Mile SE
483	CAOG11000210406	1/2 - 1 Mile ENE
CA484	CAOG11000192119	1/2 - 1 Mile East
CG485	CAOG11000211518	1/2 - 1 Mile ESE
BX486	CAOG11000211147	1/2 - 1 Mile SE
BX487	CAOG11000211402	1/2 - 1 Mile SE
CH488	CAOG11000211310	1/2 - 1 Mile SSE
489	CAOG11000204657	1/2 - 1 Mile NNE
BX490	CAOG11000211145	1/2 - 1 Mile SE
CD491	CAOG11000190643	1/2 - 1 Mile East
CD492	CAOG11000190644	1/2 - 1 Mile East
CD493	CAOG11000297824	1/2 - 1 Mile ESE
CD494	CAOG11000297825	1/2 - 1 Mile ESE
BW496	CAOG11000192425	1/2 - 1 Mile SE
BW495	CAOG11000192424	1/2 - 1 Mile SE
BX497	CAOG11000211521	1/2 - 1 Mile SE
BX498	CAOG11000211401	1/2 - 1 Mile SE
CD499	CAOG11000296952	1/2 - 1 Mile ESE
BY500	CAOG11000211463	1/2 - 1 Mile ESE
CI501	CAOG11000297826	1/2 - 1 Mile East
CG502	CAOG11000192512	1/2 - 1 Mile ESE
CI503	CAOG11000296979	1/2 - 1 Mile East
CD504	CAOG11000296975	1/2 - 1 Mile ESE
BX505	CAOG11000211377	1/2 - 1 Mile SE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
BX506	CAOG11000211146	1/2 - 1 Mile SE
BX507	CAOG11000210905	1/2 - 1 Mile SE
CA508	CAOG11000190611	1/2 - 1 Mile East
CA509	CAOG11000190612	1/2 - 1 Mile East
CD510	CAOG11000298782	1/2 - 1 Mile ESE
CB511	CAOG11000211649	1/2 - 1 Mile SE
CB512	CAOG11000211644	1/2 - 1 Mile SE
CD513	CAOG11000194366	1/2 - 1 Mile ESE
CI514	CAOG11000190619	1/2 - 1 Mile East
CD515	CAOG11000296983	1/2 - 1 Mile ESE
CI516	CAOG11000296950	1/2 - 1 Mile East
CD517	CAOG11000296951	1/2 - 1 Mile ESE
CD518	CAOG11000296981	1/2 - 1 Mile ESE
CJ519	CAOG11000211390	1/2 - 1 Mile SE
CJ520	CAOG11000211068	1/2 - 1 Mile SE
CD521	CAOG11000296980	1/2 - 1 Mile ESE
CJ522	CAOG11000192363	1/2 - 1 Mile SE
BX523	CAOG11000211874	1/2 - 1 Mile SE
CI524	CAOG11000188589	1/2 - 1 Mile East
CD525	CAOG11000296978	1/2 - 1 Mile ESE
CG526	CAOG11000211525	1/2 - 1 Mile ESE
CA527	CAOG11000192106	1/2 - 1 Mile East
CA528	CAOG11000192107	1/2 - 1 Mile East
CD529	CAOG11000296984	1/2 - 1 Mile ESE
CG530	CAOG11000211464	1/2 - 1 Mile ESE
CG531	CAOG11000206886	1/2 - 1 Mile SE
CD532	CAOG11000296935	1/2 - 1 Mile ESE
CD533	CAOG11000294830	1/2 - 1 Mile ESE
CJ534	CAOG11000211300	1/2 - 1 Mile SE
CB535	CAOG11000192348	1/2 - 1 Mile SSE
CD536	CAOG11000192118	1/2 - 1 Mile East
CC537	CAOG11000211705	1/2 - 1 Mile SSW
CD538	CAOG11000190634	1/2 - 1 Mile ESE
CJ539	CAOG11000211391	1/2 - 1 Mile SE
CD540	CAOG11000242541	1/2 - 1 Mile ESE
CD541	CAOG11000216892	1/2 - 1 Mile ESE
BZ542	CAOG11000190628	1/2 - 1 Mile East
CJ543	CAOG11000210423	1/2 - 1 Mile SE
CK544	CAOG11000200674	1/2 - 1 Mile ESE
CI545	CAOG11000206892	1/2 - 1 Mile East
CI546	CAOG11000190632	1/2 - 1 Mile East
547	CAOG11000211422	1/2 - 1 Mile WNW
CK548	CAOG11000211286	1/2 - 1 Mile ESE
CI549	CAOG11000190636	1/2 - 1 Mile East
CD550	CAOG11000190615	1/2 - 1 Mile ESE
CD551	CAOG11000206891	1/2 - 1 Mile ESE
CI552	CAOG11000243586	1/2 - 1 Mile East
CI553	CAOG11000243587	1/2 - 1 Mile East
CK554	CAOG11000190624	1/2 - 1 Mile ESE
CK555	CAOG11000190625	1/2 - 1 Mile ESE
CJ556	CAOG11000211298	1/2 - 1 Mile SE
CJ557	CAOG11000192469	1/2 - 1 Mile SE
CJ558	CAOG11000192470	1/2 - 1 Mile SE
CL559	CAOG11000204562	1/2 - 1 Mile NE
CG560	CAOG11000206885	1/2 - 1 Mile SE
CJ561	CAOG11000210427	1/2 - 1 Mile SE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
CG562	CAOG11000211520	1/2 - 1 Mile ESE
CD563	CAOG11000206893	1/2 - 1 Mile ESE
CD565	CAOG11000190610	1/2 - 1 Mile East
CD564	CAOG11000190609	1/2 - 1 Mile East
CG566	CAOG11000211873	1/2 - 1 Mile SE
CJ567	CAOG11000211299	1/2 - 1 Mile SE
CD568	CAOG11000190635	1/2 - 1 Mile ESE
CK569	CAOG11000211466	1/2 - 1 Mile ESE
CD570	CAOG11000211035	1/2 - 1 Mile ESE
CF571	CAOG11000192351	1/2 - 1 Mile SSE
CJ572	CAOG11000210424	1/2 - 1 Mile SE
CG573	CAOG11000211397	1/2 - 1 Mile SE
CE574	CAOG11000210891	1/2 - 1 Mile SSW
CM576	CAOG11000210403	1/2 - 1 Mile ENE
CM575	CAOG11000210402	1/2 - 1 Mile ENE
CJ577	CAOG11000192578	1/2 - 1 Mile SE
CJ579	CAOG11000192427	1/2 - 1 Mile SE
CJ578	CAOG11000192428	1/2 - 1 Mile SE
CJ581	CAOG11000192429	1/2 - 1 Mile SE
CJ580	CAOG11000192430	1/2 - 1 Mile SE
CN582	CAOG11000211650	1/2 - 1 Mile SE
CG583	CAOG11000211524	1/2 - 1 Mile ESE
CK584	CAOG11000211462	1/2 - 1 Mile ESE
CG585	CAOG11000192511	1/2 - 1 Mile ESE
CH586	CAOG11000211307	1/2 - 1 Mile SSE
CK587	CAOG11000243303	1/2 - 1 Mile ESE
CO588	CAOG11000206887	1/2 - 1 Mile SE
CD589	CAOG11000200675	1/2 - 1 Mile ESE
CG590	CAOG11000211396	1/2 - 1 Mile SE
CJ591	CAOG11000211070	1/2 - 1 Mile SE
CJ592	CAOG11000211684	1/2 - 1 Mile SE
CG593	CAOG11000206861	1/2 - 1 Mile ESE
CJ594	CAOG11000210415	1/2 - 1 Mile SE
CN595	CAOG11000211645	1/2 - 1 Mile SE
CK596	CAOG11000217139	1/2 - 1 Mile ESE
CG597	CAOG11000210893	1/2 - 1 Mile ESE
CK598	CAOG11000206897	1/2 - 1 Mile ESE
CK599	CAOG11000297822	1/2 - 1 Mile ESE
CK600	CAOG11000297823	1/2 - 1 Mile ESE
CG601	CAOG11000211686	1/2 - 1 Mile SE
CJ602	CAOG11000211100	1/2 - 1 Mile SE
CO603	CAOG11000211168	1/2 - 1 Mile SE
CO604	CAOG11000192505	1/2 - 1 Mile SE
CG605	CAOG11000211519	1/2 - 1 Mile ESE
CP606	CAOG11000192130	1/2 - 1 Mile East
CP607	CAOG11000192131	1/2 - 1 Mile East
CQ608	CAOG11000211651	1/2 - 1 Mile SE
CK609	CAOG11000297827	1/2 - 1 Mile ESE
CK610	CAOG11000211386	1/2 - 1 Mile ESE
CK611	CAOG11000211387	1/2 - 1 Mile ESE
CO612	CAOG11000211148	1/2 - 1 Mile SE
CP613	CAOG11000190639	1/2 - 1 Mile East
CJ614	CAOG11000192510	1/2 - 1 Mile SE
CJ615	CAOG11000210425	1/2 - 1 Mile SE
CJ616	CAOG11000192426	1/2 - 1 Mile SE
CO617	CAOG11000211572	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
CR620	CAOG11000192110	1/2 - 1 Mile ENE
CR618	CAOG11000192108	1/2 - 1 Mile ENE
CR619	CAOG11000192109	1/2 - 1 Mile ENE
CO621	CAOG11000210441	1/2 - 1 Mile SE
CS622	CAOG11000210914	1/2 - 1 Mile SSE
CT623	CAOG11000211523	1/2 - 1 Mile ESE
CU624	CAOG11000192135	1/2 - 1 Mile ESE
CU625	CAOG11000192136	1/2 - 1 Mile ESE
CJ626	CAOG11000211072	1/2 - 1 Mile SE
CI627	CAOG11000190646	1/2 - 1 Mile East
CI628	CAOG11000190647	1/2 - 1 Mile East
CO629	CAOG11000210915	1/2 - 1 Mile SE
CJ630	CAOG11000210426	1/2 - 1 Mile SE
CK631	CAOG11000210974	1/2 - 1 Mile ESE
CV632	CAOG11000190642	1/2 - 1 Mile East
CU633	CAOG11000192134	1/2 - 1 Mile ESE
CO634	CAOG11000192563	1/2 - 1 Mile ESE
CV636	CAOG11000190638	1/2 - 1 Mile ESE
CV635	CAOG11000190637	1/2 - 1 Mile ESE
CK637	CAOG11000206899	1/2 - 1 Mile ESE
CP638	CAOG11000190648	1/2 - 1 Mile East
CK639	CAOG11000206890	1/2 - 1 Mile ESE
CW640	CAOG11000192347	1/2 - 1 Mile SSE
CL641	CAOG11000204903	1/2 - 1 Mile NNE
CV642	CAOG11000194367	1/2 - 1 Mile East
CK643	CAOG11000200673	1/2 - 1 Mile ESE
CN644	CAOG11000211515	1/2 - 1 Mile SE
CO645	CAOG11000211133	1/2 - 1 Mile SE
CO646	CAOG11000211132	1/2 - 1 Mile SE
CP647	CAOG11000194250	1/2 - 1 Mile East
CO648	CAOG11000211701	1/2 - 1 Mile ESE
CO649	CAOG11000210909	1/2 - 1 Mile SE
CO650	CAOG11000206871	1/2 - 1 Mile SE
CO651	CAOG11000211131	1/2 - 1 Mile SE
CK652	CAOG11000190627	1/2 - 1 Mile ESE
CK653	CAOG11000192504	1/2 - 1 Mile ESE
CW654	CAOG11000192353	1/2 - 1 Mile SSE
CX655	CAOG11000210467	1/2 - 1 Mile SSW
CQ656	CAOG11000211643	1/2 - 1 Mile SSE
CO657	CAOG11000192577	1/2 - 1 Mile SE
CU658	CAOG11000211034	1/2 - 1 Mile ESE
CO659	CAOG11000211634	1/2 - 1 Mile SE
CQ660	CAOG11000211642	1/2 - 1 Mile SSE
CO661	CAOG11000211071	1/2 - 1 Mile SE
CO662	CAOG11000211128	1/2 - 1 Mile ESE
CU663	CAOG11000192129	1/2 - 1 Mile ESE
CK664	CAOG11000210411	1/2 - 1 Mile ESE
CT665	CAOG11000192560	1/2 - 1 Mile ESE
CT666	CAOG11000192561	1/2 - 1 Mile ESE
CN667	CAOG11000211647	1/2 - 1 Mile SE
CO668	CAOG11000211101	1/2 - 1 Mile SE
CY669	CAOG11000192120	1/2 - 1 Mile East
CY670	CAOG11000194168	1/2 - 1 Mile East
CV671	CAOG11000192111	1/2 - 1 Mile ESE
CU673	CAOG11000192122	1/2 - 1 Mile ESE
CU672	CAOG11000192121	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
CT674	CAOG11000192565	1/2 - 1 Mile ESE
CS675	CAOG11000210913	1/2 - 1 Mile SSE
CN676	CAOG11000211652	1/2 - 1 Mile SE
CU677	CAOG11000297828	1/2 - 1 Mile ESE
CT678	CAOG11000211388	1/2 - 1 Mile ESE
CO679	CAOG11000192356	1/2 - 1 Mile SE
CO680	CAOG11000211591	1/2 - 1 Mile ESE
CO681	CAOG11000210886	1/2 - 1 Mile SE
CO682	CAOG11000211569	1/2 - 1 Mile ESE
CU683	CAOG11000206895	1/2 - 1 Mile ESE
684	CAOG11000205045	1/2 - 1 Mile NW
CU685	CAOG11000192123	1/2 - 1 Mile ESE
CU686	CAOG11000211036	1/2 - 1 Mile ESE
CZ687	CAOG11000210872	1/2 - 1 Mile SE
688	CAOG11000205044	1/2 - 1 Mile NW
CO689	CAOG11000211593	1/2 - 1 Mile SE
CV690	CAOG11000190608	1/2 - 1 Mile East
CZ691	CAOG11000194262	1/2 - 1 Mile SE
CZ692	CAOG11000194263	1/2 - 1 Mile SE
CO693	CAOG11000200684	1/2 - 1 Mile SE
CY694	CAOG11000190629	1/2 - 1 Mile East
CY695	CAOG11000188586	1/2 - 1 Mile East
CX696	CAOG11000211136	1/2 - 1 Mile SSW
CU697	CAOG11000210399	1/2 - 1 Mile ESE
DA698	CAOG11000210464	1/2 - 1 Mile SSW
CZ699	CAOG11000211594	1/2 - 1 Mile SE
CZ700	CAOG11000211513	1/2 - 1 Mile SE
CZ701	CAOG11000211516	1/2 - 1 Mile SE
DB702	CAOG11000210975	1/2 - 1 Mile ESE
CT703	CAOG11000211571	1/2 - 1 Mile ESE
CT704	CAOG11000192564	1/2 - 1 Mile ESE
CU705	CAOG11000279168	1/2 - 1 Mile ESE
CT706	CAOG11000211587	1/2 - 1 Mile ESE
CT707	CAOG11000211567	1/2 - 1 Mile ESE
CU708	CAOG11000192137	1/2 - 1 Mile ESE
CU709	CAOG11000243351	1/2 - 1 Mile ESE
CX710	CAOG11000210412	1/2 - 1 Mile SSW
CT711	CAOG11000211586	1/2 - 1 Mile ESE
CV712	CAOG11000210404	1/2 - 1 Mile East
DA713	CAOG11000204893	1/2 - 1 Mile South
CZ714	CAOG11000211573	1/2 - 1 Mile SE
CU715	CAOG11000279164	1/2 - 1 Mile ESE
DB717	CAOG11000192503	1/2 - 1 Mile ESE
DB716	CAOG11000192502	1/2 - 1 Mile ESE
CY718	CAOG11000194169	1/2 - 1 Mile East
CZ719	CAOG11000192566	1/2 - 1 Mile SE
CZ720	CAOG11000192567	1/2 - 1 Mile SE
DC721	CAOG11000211514	1/2 - 1 Mile SE
DD722	CAOG11000211657	1/2 - 1 Mile SSE
DE723	CAOG11000211023	1/2 - 1 Mile East
CU724	CAOG11000200888	1/2 - 1 Mile ESE
CU725	CAOG11000243582	1/2 - 1 Mile ESE
CY726	CAOG11000188585	1/2 - 1 Mile East
CU727	CAOG11000242558	1/2 - 1 Mile ESE
DC728	CAOG11000211517	1/2 - 1 Mile SE
DE729	CAOG11000192105	1/2 - 1 Mile East

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
DC730	CAOG11000211653	1/2 - 1 Mile SE
CW731	CAOG11000210912	1/2 - 1 Mile SSE
CY732	CAOG11000194365	1/2 - 1 Mile East
DE733	CAOG11000190623	1/2 - 1 Mile East
CV734	CAOG11000192112	1/2 - 1 Mile East
CV735	CAOG11000192113	1/2 - 1 Mile East
DB736	CAOG11000190613	1/2 - 1 Mile ESE
CY737	CAOG11000190606	1/2 - 1 Mile East
CY738	CAOG11000216891	1/2 - 1 Mile East
CY739	CAOG11000243585	1/2 - 1 Mile East
CY740	CAOG11000243579	1/2 - 1 Mile East
CY741	CAOG11000211029	1/2 - 1 Mile East
CY743	CAOG11000190621	1/2 - 1 Mile East
CY742	CAOG11000190620	1/2 - 1 Mile East
CY744	CAOG11000211024	1/2 - 1 Mile East
DF745	CAOG11000211025	1/2 - 1 Mile East
CY746	CAOG11000296097	1/2 - 1 Mile East
CY747	CAOG11000296098	1/2 - 1 Mile East
DF748	CAOG11000211033	1/2 - 1 Mile East
CV749	CAOG11000297829	1/2 - 1 Mile ESE
CU750	CAOG11000200677	1/2 - 1 Mile ESE
DG751	CAOG11000217239	1/2 - 1 Mile ESE
DG752	CAOG11000192128	1/2 - 1 Mile ESE
DH753	CAOG11000211588	1/2 - 1 Mile ESE
DF754	CAOG11000188587	1/2 - 1 Mile ENE
DH755	CAOG11000194167	1/2 - 1 Mile ESE
DB756	CAOG11000192562	1/2 - 1 Mile ESE
DB757	CAOG11000206896	1/2 - 1 Mile ESE
DG758	CAOG11000190605	1/2 - 1 Mile ESE
CZ759	CAOG11000210383	1/2 - 1 Mile SE
DI761	CAOG11000190641	1/2 - 1 Mile East
DI760	CAOG11000190640	1/2 - 1 Mile East
DH762	CAOG11000210431	1/2 - 1 Mile SE
DB763	CAOG11000211568	1/2 - 1 Mile ESE
DG764	CAOG11000190616	1/2 - 1 Mile ESE
DH765	CAOG11000211405	1/2 - 1 Mile ESE
DG766	CAOG11000211028	1/2 - 1 Mile ESE
DB767	CAOG11000211582	1/2 - 1 Mile ESE
DG768	CAOG11000206901	1/2 - 1 Mile East
DJ769	CAOG11000192114	1/2 - 1 Mile ENE
DJ771	CAOG11000192116	1/2 - 1 Mile ENE
DJ770	CAOG11000192115	1/2 - 1 Mile ENE
DD772	CAOG11000211658	1/2 - 1 Mile SE
CZ773	CAOG11000192576	1/2 - 1 Mile SE
DB774	CAOG11000192138	1/2 - 1 Mile ESE
775	CAOG11000211641	1/2 - 1 Mile ENE
CZ776	CAOG11000210379	1/2 - 1 Mile SE
DC777	CAOG11000211501	1/2 - 1 Mile SE
DI778	CAOG11000210401	1/2 - 1 Mile East
DB779	CAOG11000211564	1/2 - 1 Mile ESE
DG780	CAOG11000190626	1/2 - 1 Mile ESE
DH781	CAOG11000211570	1/2 - 1 Mile ESE
782	CAOG11000192354	1/2 - 1 Mile SSE
DH783	CAOG11000192568	1/2 - 1 Mile SE
DB784	CAOG11000211589	1/2 - 1 Mile ESE
DH785	CAOG11000194261	1/2 - 1 Mile SE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
DG786	CAOG11000206898	1/2 - 1 Mile ESE
DB787	CAOG11000211585	1/2 - 1 Mile ESE
DE788	CAOG11000210405	1/2 - 1 Mile East
DG789	CAOG11000190633	1/2 - 1 Mile ESE
CZ790	CAOG11000210381	1/2 - 1 Mile SE
DD791	CAOG11000211648	1/2 - 1 Mile SSE
CZ792	CAOG11000211698	1/2 - 1 Mile SE
DB793	CAOG11000211565	1/2 - 1 Mile ESE
DK794	CAOG11000204520	1/2 - 1 Mile SSW
DD795	CAOG11000211656	1/2 - 1 Mile SE
DG796	CAOG11000190607	1/2 - 1 Mile ESE
DB797	CAOG11000192142	1/2 - 1 Mile ESE
DG798	CAOG11000206900	1/2 - 1 Mile ESE
DG799	CAOG11000206889	1/2 - 1 Mile ESE
DK800	CAOG11000211141	1/2 - 1 Mile SSW
DH801	CAOG11000211590	1/2 - 1 Mile ESE
DH802	CAOG11000210420	1/2 - 1 Mile ESE
DG804	CAOG11000217191	1/2 - 1 Mile ESE
DG803	CAOG11000217190	1/2 - 1 Mile ESE
DH805	CAOG11000211592	1/2 - 1 Mile SE
DD806	CAOG11000211655	1/2 - 1 Mile SSE
DI807	CAOG11000243580	1/2 - 1 Mile East
DI808	CAOG11000243581	1/2 - 1 Mile East
DL810	CAOG11000192580	1/2 - 1 Mile SE
DL809	CAOG11000192579	1/2 - 1 Mile SE
DI811	CAOG11000210409	1/2 - 1 Mile East
DI812	CAOG11000192133	1/2 - 1 Mile East
DD813	CAOG11000211654	1/2 - 1 Mile SSE
DH814	CAOG11000211574	1/2 - 1 Mile SE
DL815	CAOG11000210382	1/2 - 1 Mile SE
DG816	CAOG11000192132	1/2 - 1 Mile ESE
DH817	CAOG11000192143	1/2 - 1 Mile ESE
DM818	CAOG11000211504	1/2 - 1 Mile SE
DG819	CAOG11000190614	1/2 - 1 Mile ESE
DM820	CAOG11000211498	1/2 - 1 Mile SE
DM821	CAOG11000211646	1/2 - 1 Mile SSE
DN822	CAOG11000211583	1/2 - 1 Mile ESE
DN823	CAOG11000211579	1/2 - 1 Mile ESE
DC824	CAOG11000211499	1/2 - 1 Mile SE
DG825	CAOG11000210408	1/2 - 1 Mile ESE
826	CAOG11000204694	1/2 - 1 Mile NE
DG827	CAOG11000192124	1/2 - 1 Mile ESE
DN828	CAOG11000211563	1/2 - 1 Mile ESE
DN829	CAOG11000211562	1/2 - 1 Mile ESE
DG830	CAOG11000210410	1/2 - 1 Mile ESE
DH831	CAOG11000211576	1/2 - 1 Mile ESE
DN832	CAOG11000206894	1/2 - 1 Mile ESE
DN833	CAOG11000210421	1/2 - 1 Mile ESE
DN834	CAOG11000192559	1/2 - 1 Mile ESE
835	CAOG11000205159	1/2 - 1 Mile NNW
DL836	CAOG11000210380	1/2 - 1 Mile SE
DL837	CAOG11000210863	1/2 - 1 Mile SE
DL838	CAOG11000211238	1/2 - 1 Mile SE
DO839	CAOG11000211561	1/2 - 1 Mile ESE
DN840	CAOG11000211578	1/2 - 1 Mile ESE
DN841	CAOG11000211580	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
DL842	CAOG11000211252	1/2 - 1 Mile SE
DL843	CAOG11000211230	1/2 - 1 Mile SE
DL844	CAOG11000211699	1/2 - 1 Mile SE
DL845	CAOG11000210375	1/2 - 1 Mile SE
DP846	CAOG11000211364	1/2 - 1 Mile East
DL847	CAOG11000211392	1/2 - 1 Mile SE
DM848	CAOG11000211503	1/2 - 1 Mile SE
DO849	CAOG11000211575	1/2 - 1 Mile ESE
DP850	CAOG11000211074	1/2 - 1 Mile East
DQ851	CAOG11000210452	1/2 - 1 Mile SSE
DN852	CAOG11000211581	1/2 - 1 Mile ESE
DL853	CAOG11000210887	1/2 - 1 Mile SE
DL854	CAOG11000210862	1/2 - 1 Mile SE
DL855	CAOG11000211248	1/2 - 1 Mile SE
DR856	CAOG11000211079	1/2 - 1 Mile ESE
DN857	CAOG11000211566	1/2 - 1 Mile ESE
DQ858	CAOG11000206874	1/2 - 1 Mile SSE
DO859	CAOG11000211559	1/2 - 1 Mile ESE
DO860	CAOG11000192554	1/2 - 1 Mile ESE
DO863	CAOG11000192555	1/2 - 1 Mile ESE
DO862	CAOG11000192556	1/2 - 1 Mile ESE
DO861	CAOG11000192553	1/2 - 1 Mile ESE
DN864	CAOG11000192557	1/2 - 1 Mile ESE
DN865	CAOG11000211584	1/2 - 1 Mile ESE
DS866	CAOG11000210911	1/2 - 1 Mile SSE
DT867	CAOG11000211231	1/2 - 1 Mile SE
DL868	CAOG11000211234	1/2 - 1 Mile SE
DU869	CAOG11000211037	1/2 - 1 Mile ENE
DP870	CAOG11000192394	1/2 - 1 Mile East
DN871	CAOG11000202249	1/2 - 1 Mile ESE
DN872	CAOG11000192558	1/2 - 1 Mile ESE
DR873	CAOG11000211084	1/2 - 1 Mile ESE
DT874	CAOG11000211246	1/2 - 1 Mile SE
875	CAOG11000210908	1/2 - 1 Mile SSE
DL876	CAOG11000211254	1/2 - 1 Mile SE
DP877	CAOG11000211073	1/2 - 1 Mile East
DP878	CAOG11000211337	1/2 - 1 Mile East
DL879	CAOG11000211703	1/2 - 1 Mile SE
DR880	CAOG11000210918	1/2 - 1 Mile ESE
DV881	CAOG11000211043	1/2 - 1 Mile East
DP882	CAOG11000211077	1/2 - 1 Mile East
DR883	CAOG11000211083	1/2 - 1 Mile ESE
DO884	CAOG11000192551	1/2 - 1 Mile ESE
DR885	CAOG11000210396	1/2 - 1 Mile ESE
DP886	CAOG11000211363	1/2 - 1 Mile East
DR887	CAOG11000211082	1/2 - 1 Mile ESE
DW888	CAOG11000210919	1/2 - 1 Mile ESE
DM889	CAOG11000211502	1/2 - 1 Mile SE
DP890	CAOG11000211057	1/2 - 1 Mile East
DP891	CAOG11000192395	1/2 - 1 Mile East
DP892	CAOG11000211076	1/2 - 1 Mile East
DM893	CAOG11000211500	1/2 - 1 Mile SE
DW894	CAOG11000210904	1/2 - 1 Mile ESE
DV895	CAOG11000211048	1/2 - 1 Mile East
DU896	CAOG11000211862	1/2 - 1 Mile ENE
DW897	CAOG11000210866	1/2 - 1 Mile ESE

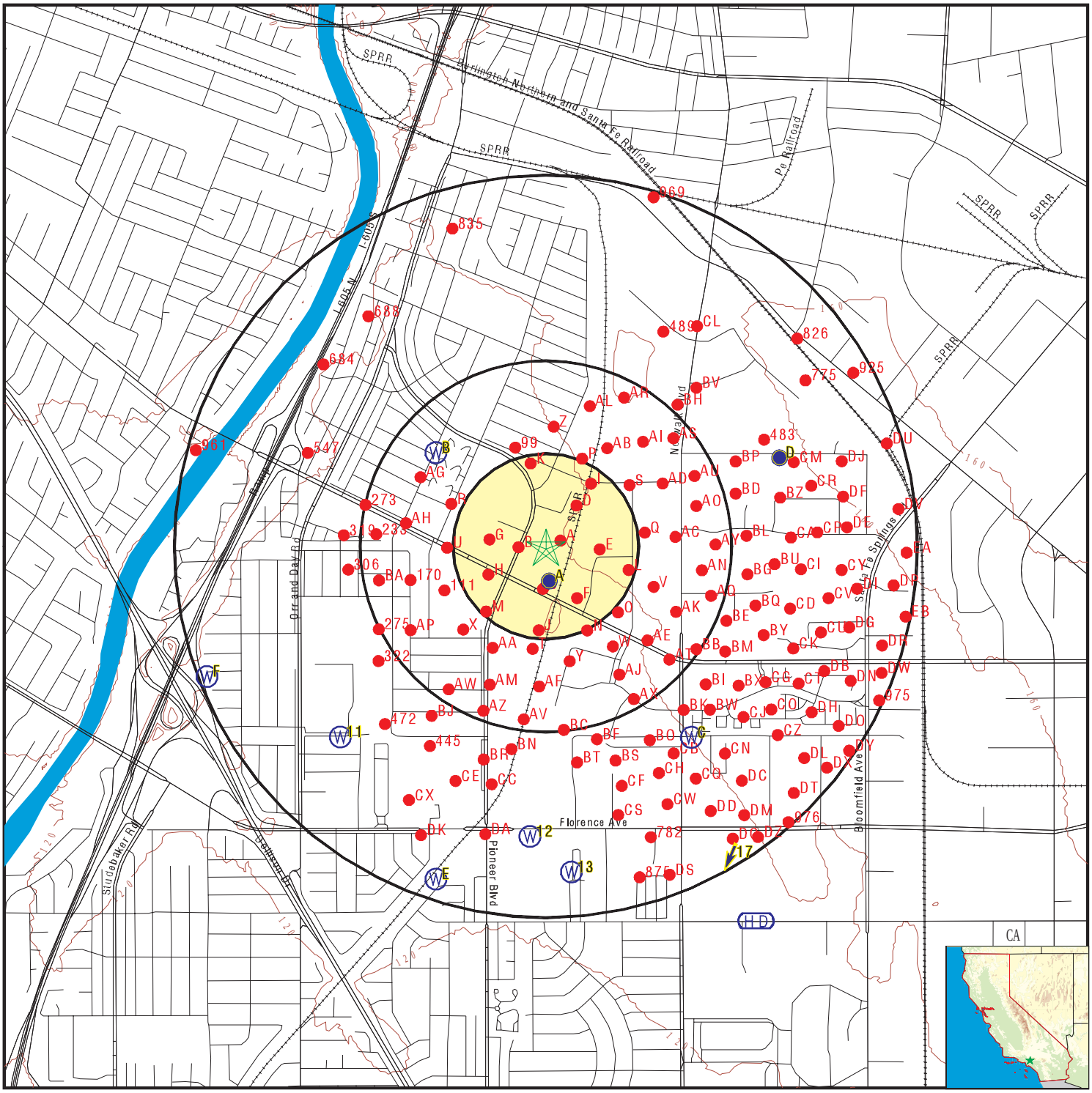
STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
DX898	CAOG11000211249	1/2 - 1 Mile SE
DO899	CAOG11000211577	1/2 - 1 Mile ESE
DT900	CAOG11000211704	1/2 - 1 Mile SE
DR901	CAOG11000192471	1/2 - 1 Mile ESE
DR902	CAOG11000192472	1/2 - 1 Mile ESE
DR903	CAOG11000192473	1/2 - 1 Mile ESE
DP904	CAOG11000211365	1/2 - 1 Mile East
DR905	CAOG11000210395	1/2 - 1 Mile ESE
DO906	CAOG11000211253	1/2 - 1 Mile ESE
DR907	CAOG11000192383	1/2 - 1 Mile ESE
DS908	CAOG11000211139	1/2 - 1 Mile SSE
DR909	CAOG11000211302	1/2 - 1 Mile ESE
DT910	CAOG11000211236	1/2 - 1 Mile SE
DQ911	CAOG11000210454	1/2 - 1 Mile SSE
DW912	CAOG11000211090	1/2 - 1 Mile ESE
DQ913	CAOG11000200876	1/2 - 1 Mile SE
DQ914	CAOG11000200877	1/2 - 1 Mile SE
DX915	CAOG11000211237	1/2 - 1 Mile SE
DR916	CAOG11000210879	1/2 - 1 Mile ESE
DR918	CAOG11000192475	1/2 - 1 Mile ESE
DR917	CAOG11000192474	1/2 - 1 Mile ESE
DW919	CAOG11000210397	1/2 - 1 Mile ESE
DR920	CAOG11000211081	1/2 - 1 Mile ESE
DO921	CAOG11000192552	1/2 - 1 Mile ESE
DT922	CAOG11000211243	1/2 - 1 Mile SE
DQ923	CAOG11000211683	1/2 - 1 Mile SSE
DW924	CAOG11000192103	1/2 - 1 Mile ESE
925	CAOG11000211670	1/2 - 1 Mile ENE
DR926	CAOG11000192384	1/2 - 1 Mile ESE
DX927	CAOG11000211239	1/2 - 1 Mile SE
DY928	CAOG11000211228	1/2 - 1 Mile SE
DR929	CAOG11000211301	1/2 - 1 Mile ESE
DU930	CAOG11000211436	1/2 - 1 Mile ENE
DW931	CAOG11000210867	1/2 - 1 Mile ESE
DV932	CAOG11000211853	1/2 - 1 Mile East
DW933	CAOG11000211318	1/2 - 1 Mile ESE
DZ934	CAOG11000211879	1/2 - 1 Mile SE
DU935	CAOG11000211666	1/2 - 1 Mile ENE
DR936	CAOG11000211058	1/2 - 1 Mile ESE
DW937	CAOG11000211089	1/2 - 1 Mile ESE
DO938	CAOG11000211560	1/2 - 1 Mile ESE
DW939	CAOG11000211314	1/2 - 1 Mile ESE
DR940	CAOG11000211340	1/2 - 1 Mile ESE
DP941	CAOG11000211078	1/2 - 1 Mile East
DX942	CAOG11000211247	1/2 - 1 Mile SE
DW943	CAOG11000211317	1/2 - 1 Mile ESE
EA944	CAOG11000192497	1/2 - 1 Mile East
DW946	CAOG11000189011	1/2 - 1 Mile ESE
DW947	CAOG11000189012	1/2 - 1 Mile ESE
DW945	CAOG11000189010	1/2 - 1 Mile ESE
EA948	CAOG11000211359	1/2 - 1 Mile East
EA950	CAOG11000192499	1/2 - 1 Mile East
EA949	CAOG11000192498	1/2 - 1 Mile East
EA951	CAOG11000192393	1/2 - 1 Mile East
DR952	CAOG11000211080	1/2 - 1 Mile ESE
EA953	CAOG11000211338	1/2 - 1 Mile East

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
DT954	CAOG11000211235	1/2 - 1 Mile SE
DS955	CAOG11000211140	1/2 - 1 Mile SSE
DW956	CAOG11000211316	1/2 - 1 Mile ESE
DW957	CAOG11000211315	1/2 - 1 Mile ESE
DP958	CAOG11000192390	1/2 - 1 Mile East
DP959	CAOG11000192391	1/2 - 1 Mile East
DP960	CAOG11000192392	1/2 - 1 Mile East
961	CAOG11000214071	1/2 - 1 Mile WNW
DZ962	CAOG11000210453	1/2 - 1 Mile SE
DW963	CAOG11000192448	1/2 - 1 Mile ESE
DP964	CAOG11000192380	1/2 - 1 Mile East
DY965	CAOG11000211305	1/2 - 1 Mile ESE
DY966	CAOG11000192459	1/2 - 1 Mile SE
DW967	CAOG11000192477	1/2 - 1 Mile ESE
EB968	CAOG11000194246	1/2 - 1 Mile ESE
969	CAOG11000204592	1/2 - 1 Mile NNE
EB970	CAOG11000194171	1/2 - 1 Mile ESE
DU971	CAOG11000211039	1/2 - 1 Mile ENE
DW972	CAOG11000211060	1/2 - 1 Mile ESE
DW973	CAOG11000192409	1/2 - 1 Mile ESE
EB974	CAOG11000211550	1/2 - 1 Mile East
975	CAOG11000211149	1/2 - 1 Mile ESE
976	CAOG11000211242	1/2 - 1 Mile SE
DX977	CAOG11000211251	1/2 - 1 Mile SE
DX978	CAOG11000211241	1/2 - 1 Mile SE
DY979	CAOG11000192460	1/2 - 1 Mile SE
DY981	CAOG11000192462	1/2 - 1 Mile SE
DY980	CAOG11000192461	1/2 - 1 Mile SE
EB982	CAOG11000192396	1/2 - 1 Mile East
DV983	CAOG11000211361	1/2 - 1 Mile East
DW984	CAOG11000192412	1/2 - 1 Mile ESE
DY985	CAOG11000211303	1/2 - 1 Mile ESE
DU986	CAOG11000211865	1/2 - 1 Mile ENE
DY987	CAOG11000210873	1/2 - 1 Mile SE
DW988	CAOG11000211061	1/2 - 1 Mile ESE

PHYSICAL SETTING SOURCE MAP - 5552600.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: 9920 Pioneer Blvd	CLIENT: Hazard Management Consulting
ADDRESS: 9920 Pioneer Blvd Santa Fe Springs CA 90670	CONTACT: Troy Taylor
LAT/LONG: 33.946351 / 118.079047	INQUIRY #: 5552600.2s DATE: February 04, 2019 3:01 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
South
0 - 1/8 Mile
Lower

CA WELLS **3859**

Seq:	3859	Prim sta c:	03S/11W-06D03 S
Frds no:	1910245006	County:	19
District:	07	User id:	4TH
System no:	1910245	Water type:	G
Source nam:	WELL 04 - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	335643.0	Longitude:	1180441.0
Precision:	2	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910245	System nam:	SANTA FE SPRINGS - CITY, WATER DEPT.
Hqname:	Not Reported	Address:	11710 E. Telegraph Road
City:	Santa Fe Springs	State:	CA
Zip:	90670	Zip ext:	Not Reported
Pop serv:	16416	Connection:	4934
Area serve:	SANTA FE SPRINGS		

A2
South
0 - 1/8 Mile
Lower

FED USGS **USGS40000139193**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S011W06P003S	Type:	Well
Description:	Not Reported	HUC:	18070106
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	760
Well Depth Units:	ft	Well Hole Depth:	800
Well Hole Depth Units:	ft		

A3
South
0 - 1/8 Mile
Lower

FED USGS **USGS40000139208**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S011W06D003S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19780616	Well Depth:	780
Well Depth Units:	ft	Well Hole Depth:	840
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1978-06-16
Feet below surface:	95	Feet to sea level:	Not Reported
Note:	Other conditions existed that would affect the measured water level.		

B4
NW
1/4 - 1/2 Mile
Higher

CA WELLS 2862

Seq:	2862	Prim sta c:	02S/12W-25Q05 S
Frds no:	1910245001	County:	19
District:	07	User id:	4TH
System no:	1910245	Water type:	G
Source nam:	ASHMUM WELL 304-W1	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	335700.0	Longitude:	1180500.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910245	System nam:	SANTA FE SPRINGS - CITY, WATER DEPT.
Hqname:	Not Reported	Address:	11710 E. Telegraph Road
City:	Santa Fe Springs	State:	CA
Zip:	90670	Zip ext:	Not Reported
Pop serv:	16416	Connection:	4934
Area serve:	SANTA FE SPRINGS		

B5
NW
1/4 - 1/2 Mile
Higher

CA WELLS 2902

Seq:	2902	Prim sta c:	02S/12W-36Q05 S
Frds no:	1910245007	County:	19
District:	07	User id:	4TH
System no:	1910245	Water type:	G
Source nam:	WELL 305-W1 - DESTROYED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	335700.0	Longitude:	1180500.0
Precision:	8	Status:	DS
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910245	System nam:	SANTA FE SPRINGS - CITY, WATER DEPT.
Hqname:	Not Reported	Address:	11710 E. Telegraph Road
City:	Santa Fe Springs	State:	CA
Zip:	90670	Zip ext:	Not Reported
Pop serv:	16416	Connection:	4934
Area serve:	SANTA FE SPRINGS		

C6
SE
1/2 - 1 Mile
Higher

FED USGS USGS40000139170

Organization ID:	USGS-CA
Organization Name:	USGS California Water Science Center

Monitor Location:	003S011W06X013S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	20070409	Well Depth:	215
Well Depth Units:	ft	Well Hole Depth:	225
Well Hole Depth Units:	ft		

C7
SE **FED USGS** **USGS40000139171**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S011W06X012S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	20070409	Well Depth:	169
Well Depth Units:	ft	Well Hole Depth:	225
Well Hole Depth Units:	ft		

D8
ENE **FED USGS** **USGS40000139224**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S011W31X011S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	20070219	Well Depth:	210
Well Depth Units:	ft	Well Hole Depth:	250
Well Hole Depth Units:	ft		

D9
ENE **FED USGS** **USGS40000139225**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S011W31X010S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		

Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	20070219	Well Depth:	125
Well Depth Units:	ft	Well Hole Depth:	250
Well Hole Depth Units:	ft		

D10
ENE
1/2 - 1 Mile
Higher

CA WELLS 2775

Seq:	2775	Prim sta c:	02S/11W-30R03 S
Frds no:	1910245004	County:	19
District:	07	User id:	4TH
System no:	1910245	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	335700.0	Longitude:	1180400.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910245	System nam:	SANTA FE SPRINGS - CITY, WATER DEPT.
Hqname:	Not Reported	Address:	11710 E. Telegraph Road
City:	Santa Fe Springs	State:	CA
Zip:	90670	Zip ext:	Not Reported
Pop serv:	16416	Connection:	4934
Area serve:	SANTA FE SPRINGS		

Sample date:	22-SEP-15	Finding:	1200.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	22-SEP-15	Finding:	8.02
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

Sample date:	22-SEP-15	Finding:	210.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	22-SEP-15	Finding:	260.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	22-SEP-15	Finding:	0.46
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		

Sample date:	22-SEP-15	Finding:	450.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	22-SEP-15	Finding:	130.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	22-SEP-15	Finding:	31.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	22-SEP-15	Finding:	71.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	4.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	96.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	260.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	22-SEP-15	Finding:	0.23
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	22-SEP-15	Finding:	3.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	22-SEP-15	Finding:	9.6
Chemical:	SELENIUM	Report units:	UG/L
Dlr:	5.		
Sample date:	22-SEP-15	Finding:	5.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-SEP-15	Finding:	2.1
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	22-SEP-15	Finding:	22.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-15	Finding:	5.4
Chemical:	TRICHLOROFLUOROMETHANE	Report units:	UG/L
Dlr:	5.		
Sample date:	22-SEP-15	Finding:	12.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-15	Finding:	14.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-15	Finding:	860.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	0.83
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	15.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		

Report units:	UG/L	Dlr:	10.
Sample date:	22-SEP-15	Finding:	0.29
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	22-SEP-15	Finding:	2.1
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	3.04
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	22-SEP-15	Finding:	2.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	2.1e-002
Chemical:	RADIUM 226	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-SEP-15	Finding:	0.109
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	0.617
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	2.46
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	0.418
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	0.265
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	1200.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	7.97
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	210.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	260.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	22-SEP-15	Finding:	0.45
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	450.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	130.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	31.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	70.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	4.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	95.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	260.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	22-SEP-15	Finding:	0.24
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	22-SEP-15	Finding:	3.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	22-SEP-15	Finding:	9.6
Chemical:	SELENIUM	Report units:	UG/L
Dlr:	5.		
Sample date:	22-SEP-15	Finding:	5.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-SEP-15	Finding:	2.3
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	22-SEP-15	Finding:	22.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-15	Finding:	5.3
Chemical:	TRICHLOROFLUOROMETHANE	Report units:	UG/L
Dlr:	5.		
Sample date:	22-SEP-15	Finding:	13.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	22-SEP-15	Finding:	14.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-15	Finding:	860.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	0.73
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	15.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	22-SEP-15	Finding:	0.15
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	22-SEP-15	Finding:	3.7
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	2.27
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	0.101
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	8.4e-002
Chemical:	RADIUM 228	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-SEP-15	Finding:	0.593
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	2.32
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	0.418
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JAN-14	Finding:	5.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	09-JAN-14	Finding:	19.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	17-DEC-13	Finding:	20.2
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	17-DEC-13	Finding:	5.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-NOV-13	Finding:	7.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-NOV-13	Finding:	3.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-NOV-13	Finding:	6.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-NOV-13	Finding:	19.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	18-NOV-13	Finding:	17.4
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	18-NOV-13	Finding:	2.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-NOV-13	Finding:	6.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-NOV-13	Finding:	1.5
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	18-NOV-13	Finding:	5.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-AUG-13	Finding:	0.89
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-AUG-13	Finding:	21.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	27-AUG-13	Finding:	1.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-AUG-13	Finding:	2.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	19-AUG-13	Finding:	21.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	19-AUG-13	Finding:	3.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-AUG-13	Finding:	1.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-AUG-13	Finding:	5.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-MAY-13	Finding:	23.3
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	14-MAY-13	Finding:	1.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-MAY-13	Finding:	2.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-FEB-13	Finding:	0.81
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-FEB-13	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-FEB-13	Finding:	16.6
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	21-NOV-12	Finding:	19.3
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	21-NOV-12	Finding:	0.99
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-NOV-12	Finding:	2.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	20-AUG-12	Finding:	22.1
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	20-AUG-12	Finding:	1.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	20-AUG-12	Finding:	0.59
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	20-AUG-12	Finding:	4.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	20-AUG-12	Finding:	2.3
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	20-AUG-12	Finding:	1.6
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	17-MAY-12	Finding:	2.24
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	5.18
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	17-MAY-12	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAY-12	Finding:	0.98
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAY-12	Finding:	1.88
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	20.2
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	21-FEB-12	Finding:	0.91
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-FEB-12	Finding:	20.7
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	21-FEB-12	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

11
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000139172**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S012W01K008S	Type:	Well
Description:	Not Reported	HUC:	18070106

Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	241
Well Depth Units:	ft	Well Hole Depth:	266
Well Hole Depth Units:	ft		

12
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000139146**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S011W06D002S	Type:	Well
Description:	Not Reported	HUC:	18070106
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	670
Well Depth Units:	ft	Well Hole Depth:	740
Well Hole Depth Units:	ft		

13
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000139134**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S011W06N001S	Type:	Well
Description:	Not Reported	HUC:	18070106
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	650
Well Depth Units:	ft	Well Hole Depth:	650
Well Hole Depth Units:	ft		

E14
SSW
1/2 - 1 Mile
Lower

CA WELLS **3913**

Seq:	3913	Prim sta c:	03S/12W-01K08 S
Frds no:	1910245002	County:	19
District:	07	User id:	4TH
System no:	1910245	Water type:	G
Source nam:	BAXTER WELL 308-W1 - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	335600.0	Longitude:	1180500.0
Precision:	8	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported

Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1910245	System nam:	SANTA FE SPRINGS - CITY, WATER DEPT.
Hqname:	Not Reported	Address:	11710 E. Telegraph Road
City:	Santa Fe Springs	State:	CA
Zip:	90670	Zip ext:	Not Reported
Pop serv:	16416	Connection:	4934
Area serve:	SANTA FE SPRINGS		

E15
SSW
1/2 - 1 Mile
Lower

CA WELLS 3950

Seq:	3950	Prim sta c:	03S/12W-12A02 S
Frds no:	1910098009	County:	19
District:	15	User id:	MET
System no:	1910098	Water type:	G
Source nam:	PIONEER WELL 03	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	335600.0	Longitude:	1180500.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1910098	System nam:	SCWC - NORWALK
Hqname:	SOUTHERN CALIF WATER CO	Address:	12035 Burke St.,Ste 1
City:	Santa Fe Springs	State:	CA
Zip:	90670	Zip ext:	Not Reported
Pop serv:	33500	Connection:	9338
Area serve:	NORWALK		
Sample date:	21-MAR-18	Finding:	6.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	07-MAR-18	Finding:	18.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAR-18	Finding:	0.96
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAR-18	Finding:	7.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAR-18	Finding:	0.52
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAR-18	Finding:	22.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAR-18	Finding:	0.93
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	28-FEB-18	Finding:	0.55
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-FEB-18	Finding:	7.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-FEB-18	Finding:	0.92
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-FEB-18	Finding:	18.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-FEB-18	Finding:	1.
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-FEB-18	Finding:	24.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-FEB-18	Finding:	0.42
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-18	Finding:	1000.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-18	Finding:	1.6
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-FEB-18	Finding:	0.15
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	13-FEB-18	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-FEB-18	Finding:	7.7
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-FEB-18	Finding:	0.15
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-FEB-18	Finding:	0.27
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	13-FEB-18	Finding:	300.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	13-FEB-18	Finding:	100.
Chemical:	CHLORIDE	Report units:	MG/L

Dlr:	0.		
Sample date:	13-FEB-18	Finding:	5.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-18	Finding:	94.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-18	Finding:	34.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-18	Finding:	160.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-18	Finding:	540.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-18	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-FEB-18	Finding:	370.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-18	Finding:	300.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-18	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-FEB-18	Finding:	1400.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	13-FEB-18	Finding:	8.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	03-JAN-18	Finding:	0.95
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JAN-18	Finding:	9.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JAN-18	Finding:	0.69
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JAN-18	Finding:	25.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	03-JAN-18	Finding:	20.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-DEC-17	Finding:	35.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-DEC-17	Finding:	1.
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-DEC-17	Finding:	27.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-DEC-17	Finding:	1.3
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-DEC-17	Finding:	13.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-NOV-17	Finding:	0.79
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-NOV-17	Finding:	8.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-NOV-17	Finding:	0.88
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-NOV-17	Finding:	20.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-NOV-17	Finding:	1.4
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-NOV-17	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-NOV-17	Finding:	25.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-17	Finding:	20.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-17	Finding:	5.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-17	Finding:	0.92
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L

Dlr:	0.5		
Sample date:	05-OCT-17	Finding:	16.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-SEP-17	Finding:	31.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-SEP-17	Finding:	15.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-SEP-17	Finding:	1.3
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-SEP-17	Finding:	40.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-SEP-17	Finding:	1.
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-17	Finding:	7.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-AUG-17	Finding:	5.4
Chemical:	TRICHLOROFLUOROMETHANE	Report units:	UG/L
Dlr:	5.		
Sample date:	02-AUG-17	Finding:	1.3
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-17	Finding:	14.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-17	Finding:	0.87
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-17	Finding:	29.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-17	Finding:	2.6
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-17	Finding:	16.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	02-AUG-17	Finding:	38.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	06-JUL-17	Finding:	28.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUL-17	Finding:	12.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUL-17	Finding:	0.99
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUL-17	Finding:	35.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUL-17	Finding:	1.1
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-MAY-17	Finding:	1.
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-MAY-17	Finding:	10.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-MAY-17	Finding:	30.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-MAY-17	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAY-17	Finding:	0.82
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-MAY-17	Finding:	1.8
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-MAY-17	Finding:	12.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	03-MAY-17	Finding:	25.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-APR-17	Finding:	0.91
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-APR-17	Finding:	12.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-APR-17	Finding:	1.4
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L

Dlr:	0.5		
Sample date:	05-APR-17	Finding:	34.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-APR-17	Finding:	29.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAR-17	Finding:	50.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAR-17	Finding:	1.8
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAR-17	Finding:	40.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAR-17	Finding:	17.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAR-17	Finding:	1.
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-FEB-17	Finding:	5.3
Chemical:	1,4-DIOXANE	Report units:	UG/L
Dlr:	1.		
Sample date:	09-FEB-17	Finding:	1.8
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-FEB-17	Finding:	44.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-FEB-17	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-FEB-17	Finding:	0.28
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	09-FEB-17	Finding:	17.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-FEB-17	Finding:	0.97
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-FEB-17	Finding:	0.56
Chemical:	1,2-DICHLOROPROPANE	Report units:	UG/L
Dlr:	0.5		

Sample date:	09-FEB-17	Finding:	37.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-FEB-17	Finding:	3.5
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-FEB-17	Finding:	20.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	09-FEB-17	Finding:	7.8
Chemical:	TRICHLOROFLUOROMETHANE	Report units:	UG/L
Dlr:	5.		
Sample date:	18-JAN-17	Finding:	4.2
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-JAN-17	Finding:	42.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-JAN-17	Finding:	0.57
Chemical:	1,2-DICHLOROPROPANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-JAN-17	Finding:	0.98
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-JAN-17	Finding:	26.
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Report units:	UG/L	Dlr:	10.
Sample date:	18-JAN-17	Finding:	2.2
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-JAN-17	Finding:	54.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-JAN-17	Finding:	18.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-DEC-16	Finding:	33.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-DEC-16	Finding:	2.4
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-DEC-16	Finding:	28.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-DEC-16	Finding:	0.98
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L

Dlr:	0.5		
Sample date:	07-DEC-16	Finding:	19.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-NOV-16	Finding:	1.7
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-NOV-16	Finding:	9.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-NOV-16	Finding:	0.61
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-NOV-16	Finding:	24.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-NOV-16	Finding:	3.4
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-NOV-16	Finding:	1.8
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	09-NOV-16	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-NOV-16	Finding:	1.8
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	09-NOV-16	Finding:	27.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-OCT-16	Finding:	0.65
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-OCT-16	Finding:	30.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-OCT-16	Finding:	1.8
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-OCT-16	Finding:	12.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-OCT-16	Finding:	27.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	06-SEP-16	Finding:	24.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-SEP-16	Finding:	0.84
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-SEP-16	Finding:	2.
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-SEP-16	Finding:	27.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-SEP-16	Finding:	11.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-AUG-16	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-AUG-16	Finding:	1.4
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	03-AUG-16	Finding:	26.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-AUG-16	Finding:	5.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-AUG-16	Finding:	0.56
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-AUG-16	Finding:	22.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-AUG-16	Finding:	1.2
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-AUG-16	Finding:	1.4
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	0.71
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUL-16	Finding:	26.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUL-16	Finding:	1.7
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L

Dlr:	0.5		
Sample date:	06-JUL-16	Finding:	9.8
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUL-16	Finding:	0.63
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUL-16	Finding:	23.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-JUN-16	Finding:	20.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-JUN-16	Finding:	0.58
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-JUN-16	Finding:	6.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-JUN-16	Finding:	1.4
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-JUN-16	Finding:	22.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAY-16	Finding:	1.3
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	02-MAY-16	Finding:	18.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAY-16	Finding:	0.53
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAY-16	Finding:	6.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAY-16	Finding:	1.1
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAY-16	Finding:	19.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAY-16	Finding:	1.3
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		

Sample date:	02-MAY-16	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-MAY-16	Finding:	1.9
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-APR-16	Finding:	23.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-APR-16	Finding:	6.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-APR-16	Finding:	0.81
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-APR-16	Finding:	18.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-APR-16	Finding:	0.57
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAR-16	Finding:	17.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAR-16	Finding:	6.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAR-16	Finding:	0.82
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAR-16	Finding:	22.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-FEB-16	Finding:	6.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-FEB-16	Finding:	0.29
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-FEB-16	Finding:	2.3
Chemical:	1,4-DIOXANE	Report units:	UG/L
Dlr:	1.		
Sample date:	03-FEB-16	Finding:	1.1
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	03-FEB-16	Finding:	23.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	03-FEB-16	Finding:	6.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-FEB-16	Finding:	18.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-FEB-16	Finding:	1.4
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-FEB-16	Finding:	0.89
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JAN-16	Finding:	0.68
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JAN-16	Finding:	6.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JAN-16	Finding:	1.
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JAN-16	Finding:	23.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JAN-16	Finding:	21.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-DEC-15	Finding:	5.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-DEC-15	Finding:	0.57
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-DEC-15	Finding:	20.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-DEC-15	Finding:	25.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-DEC-15	Finding:	0.94
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-NOV-15	Finding:	21.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	03-NOV-15	Finding:	0.77
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-NOV-15	Finding:	0.51
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-NOV-15	Finding:	17.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-NOV-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-NOV-15	Finding:	1.2
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-NOV-15	Finding:	4.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-15	Finding:	0.64
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-15	Finding:	3.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-15	Finding:	0.63
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-15	Finding:	15.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-15	Finding:	14.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-SEP-15	Finding:	0.68
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-SEP-15	Finding:	18.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-SEP-15	Finding:	0.67
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-SEP-15	Finding:	3.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-SEP-15	Finding:	20.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	04-AUG-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-AUG-15	Finding:	13.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-AUG-15	Finding:	2.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-AUG-15	Finding:	16.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-AUG-15	Finding:	0.64
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUL-15	Finding:	14.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUL-15	Finding:	2.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUL-15	Finding:	17.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JUN-15	Finding:	2.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JUN-15	Finding:	13.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JUN-15	Finding:	16.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-MAY-15	Finding:	14.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-MAY-15	Finding:	0.55
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-MAY-15	Finding:	2.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-MAY-15	Finding:	17.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	06-MAY-15	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-APR-15	Finding:	11.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-APR-15	Finding:	14.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-APR-15	Finding:	1.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAR-15	Finding:	17.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAR-15	Finding:	0.54
Chemical:	1,1-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAR-15	Finding:	3.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAR-15	Finding:	0.54
Chemical:	1,2-DICHLOROETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-MAR-15	Finding:	17.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-FEB-15	Finding:	160.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-15	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	04-FEB-15	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-FEB-15	Finding:	14.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-FEB-15	Finding:	1.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-FEB-15	Finding:	12.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-FEB-15	Finding:	2.
Chemical:	1,4-DIOXANE	Report units:	UG/L

Dlr:	1.		
Sample date:	04-FEB-15	Finding:	1400.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	04-FEB-15	Finding:	7.52
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	04-FEB-15	Finding:	330.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-15	Finding:	400.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-15	Finding:	540.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-15	Finding:	7400.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-FEB-15	Finding:	34.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-15	Finding:	99.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-15	Finding:	5.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-15	Finding:	110.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-15	Finding:	270.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	04-FEB-15	Finding:	0.3
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	04-FEB-15	Finding:	5.9
Chemical:	SELENIUM	Report units:	UG/L
Dlr:	5.		
Sample date:	04-FEB-15	Finding:	970.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-15	Finding:	0.73
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		

Sample date:	07-JAN-15	Finding:	9.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JAN-15	Finding:	1.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JAN-15	Finding:	11.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-DEC-14	Finding:	1.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	07-OCT-14	Finding:	6.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-OCT-14	Finding:	1.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-OCT-14	Finding:	8.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-SEP-14	Finding:	1.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-SEP-14	Finding:	8.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-SEP-14	Finding:	11.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-AUG-14	Finding:	9.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-AUG-14	Finding:	1.4
Chemical:	1,4-DIOXANE	Report units:	UG/L
Dlr:	1.		
Sample date:	04-AUG-14	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-AUG-14	Finding:	2.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-AUG-14	Finding:	12.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-14	Finding:	8.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	01-JUL-14	Finding:	2.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-14	Finding:	9.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JUN-14	Finding:	7.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JUN-14	Finding:	2.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JUN-14	Finding:	7.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-14	Finding:	2.2
Chemical:	1,4-DIOXANE	Report units:	UG/L
Dlr:	1.		
Sample date:	07-MAY-14	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-14	Finding:	7.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-14	Finding:	2.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-14	Finding:	6.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-APR-14	Finding:	9.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-APR-14	Finding:	2.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-APR-14	Finding:	11.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-MAR-14	Finding:	2.7
Chemical:	1,4-DIOXANE	Report units:	UG/L
Dlr:	1.		
Sample date:	05-MAR-14	Finding:	9.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	05-MAR-14	Finding:	9.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-MAR-14	Finding:	2.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-FEB-14	Finding:	9.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-FEB-14	Finding:	0.26
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	05-FEB-14	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-FEB-14	Finding:	8.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-FEB-14	Finding:	1.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JAN-14	Finding:	9.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JAN-14	Finding:	8.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JAN-14	Finding:	2.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-DEC-13	Finding:	1.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-DEC-13	Finding:	7.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-DEC-13	Finding:	8.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-MAY-13	Finding:	9.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-MAY-13	Finding:	7.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-MAY-13	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	09-MAY-13	Finding:	2.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-APR-13	Finding:	5.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-APR-13	Finding:	0.26
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-APR-13	Finding:	9.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-APR-13	Finding:	7.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-APR-13	Finding:	2.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-MAR-13	Finding:	8.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-MAR-13	Finding:	6.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-MAR-13	Finding:	2.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-FEB-13	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-FEB-13	Finding:	9.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-FEB-13	Finding:	8.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-FEB-13	Finding:	2.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JAN-13	Finding:	1.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JAN-13	Finding:	14.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	02-JAN-13	Finding:	11.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-DEC-12	Finding:	1.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-DEC-12	Finding:	11.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-DEC-12	Finding:	10.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-NOV-12	Finding:	9.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-NOV-12	Finding:	1.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-NOV-12	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-NOV-12	Finding:	8.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-12	Finding:	8.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-12	Finding:	1.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-12	Finding:	7.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-SEP-12	Finding:	9.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-SEP-12	Finding:	1.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-SEP-12	Finding:	7.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-AUG-12	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-AUG-12	Finding:	6.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	08-AUG-12	Finding:	1.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-AUG-12	Finding:	5.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-12	Finding:	6.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-12	Finding:	1.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-12	Finding:	7.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUN-12	Finding:	2.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUN-12	Finding:	7.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUN-12	Finding:	8.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAY-12	Finding:	1.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAY-12	Finding:	6.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAY-12	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAY-12	Finding:	7.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-APR-12	Finding:	9.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-APR-12	Finding:	2.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-APR-12	Finding:	7.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	14-MAR-12	Finding:	100.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	14-MAR-12	Finding:	6500.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-MAR-12	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-MAR-12	Finding:	910.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	14-MAR-12	Finding:	5.7
Chemical:	SELENIUM	Report units:	UG/L
Dlr:	5.		
Sample date:	14-MAR-12	Finding:	9.
Chemical:	COPPER	Report units:	UG/L
Dlr:	50.		
Sample date:	14-MAR-12	Finding:	4.2
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	14-MAR-12	Finding:	40.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	14-MAR-12	Finding:	0.44
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	14-MAR-12	Finding:	240.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	14-MAR-12	Finding:	4.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-MAR-12	Finding:	94.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-MAR-12	Finding:	29.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-MAR-12	Finding:	140.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-MAR-12	Finding:	470.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-MAR-12	Finding:	290.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L

Dlr:	0.		
Sample date:	14-MAR-12	Finding:	290.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-MAR-12	Finding:	7.39
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-MAR-12	Finding:	1800.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-MAR-12	Finding:	6.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-MAR-12	Finding:	2.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-MAR-12	Finding:	7.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-FEB-12	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-FEB-12	Finding:	0.503
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-FEB-12	Finding:	3.36
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-FEB-12	Finding:	0.203
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-FEB-12	Finding:	4.7e-002
Chemical:	RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	01-FEB-12	Finding:	3.06
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-FEB-12	Finding:	3.2e-002
Chemical:	RADIUM 228	Report units:	PCI/L
Dlr:	1.		
Sample date:	01-FEB-12	Finding:	3.33
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	01-FEB-12	Finding:	0.278
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.	Report units:	PCI/L
Dlr:	0.		

Sample date:	01-FEB-12	Finding:	0.439
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	01-FEB-12	Finding:	9.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-FEB-12	Finding:	2.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-FEB-12	Finding:	8.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JAN-12	Finding:	8.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JAN-12	Finding:	2.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JAN-12	Finding:	9.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

F16
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000139180**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S012W01F008S	Type:	Well
Description:	Not Reported	HUC:	18070106
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	1000
Well Depth Units:	ft	Well Hole Depth:	1052
Well Hole Depth Units:	ft		

17
SSE
1/2 - 1 Mile
Higher

AQUIFLOW **69672**

Site ID:	I-12222
Groundwater Flow:	SSW
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	100
Date:	11/1996

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
F18 **WSW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000139181**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S012W01E003S	Type:	Well
Description:	Not Reported	HUC:	18070106
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	1000
Well Depth Units:	ft	Well Hole Depth:	1052
Well Hole Depth Units:	ft		

1G **SSE** **1/2 - 1 Mile** **Lower**	Site ID:	I-12222	**AQUIFLOW**	**69672**
	Groundwater Flow:	SSW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	100		
	Date:	11/1996		

Map ID
Direction
Distance

Database EDR ID Number

A1
ENE
0 - 1/8 Mile

OIL_GAS **CAOG11000211449**

Districtnu:	1	Apinumber:	03716139
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	11-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211449		

A2
NE
0 - 1/8 Mile

OIL_GAS **CAOG11000211448**

Districtnu:	1	Apinumber:	03716138
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211448		

A3
NE
0 - 1/8 Mile

OIL_GAS **CAOG11000211439**

Districtnu:	1	Apinumber:	03716129
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	3

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211439		

A4
NE
0 - 1/8 Mile

OIL_GAS **CAOG11000211440**

Districtnu:	1	Apinumber:	03716130
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	3-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211440		

A5
SE
0 - 1/8 Mile

OIL_GAS **CAOG11000211664**

Districtnu:	1	Apinumber:	03716398
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S. G. & J.	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211664		

A6
SE
0 - 1/8 Mile

OIL_GAS **CAOG11000211665**

Districtnu:	1	Apinumber:	03716399
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S. G. & J. Line	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211665		

B7
West
0 - 1/8 Mile

OIL_GAS **CAOG11000211444**

Districtnu:	1	Apinumber:	03716134
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211444		

C8
SSW
0 - 1/8 Mile

OIL_GAS **CAOG11000211435**

Districtnu:	1	Apinumber:	03716124
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211435		

Map ID
Direction
Distance

Database EDR ID Number

A9
NNE **OIL_GAS** **CAOG11000211451**
0 - 1/8 Mile

Districtnu:	1	Apinumber:	03716141
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211451		

C10
South **OIL_GAS** **CAOG11000211433**
0 - 1/8 Mile

Districtnu:	1	Apinumber:	03716122
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211433		

B11
NW **OIL_GAS** **CAOG11000211452**
0 - 1/8 Mile

Districtnu:	1	Apinumber:	03716142
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	14

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211452		

D12
NNE **OIL_GAS** **CAOG11000211438**
0 - 1/8 Mile

Districtnu:	1	Apinumber:	03716128
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211438		

A13
ENE **OIL_GAS** **CAOG11000211474**
0 - 1/8 Mile

Districtnu:	1	Apinumber:	03716165
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	2-2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211474		

B14
SW **OIL_GAS** **CAOG11000211430**
0 - 1/8 Mile

Districtnu:	1	Apinumber:	03716119
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211430		

C15
South
0 - 1/8 Mile

OIL_GAS **CAOG11000211428**

Districtnu:	1	Apinumber:	03716117
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211428		

E16
East
0 - 1/8 Mile

OIL_GAS **CAOG11000192509**

Districtnu:	1	Apinumber:	03716186
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	153.665	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Geary	Wellnumber:	T2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192509		

Map ID
Direction
Distance

Database EDR ID Number

D17
NE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211175**

Districtnu:	1	Apinumber:	03715830
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	015-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211175		

F18
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211477**

Districtnu:	1	Apinumber:	03716168
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	2-6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211477		

D19
ENE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211291**

Districtnu:	1	Apinumber:	03715953
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	016-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211291		

D20
NE **OIL_GAS** **CAOG11000211181**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03715837
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	014-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211181		

E21
ESE **OIL_GAS** **CAOG11000211481**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716173
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Mattern	Wellnumber:	2-12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211481		

E22
East **OIL_GAS** **CAOG11000192508**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716171
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	150.6	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Geary	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192508		

F23
SE **OIL_GAS** **CAOG11000211476**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716167
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Mattern	Wellnumber:	2-5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211476		

G24
WNW **OIL_GAS** **CAOG11000211443**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716133
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211443		

Map ID
Direction
Distance

Database EDR ID Number

C25
South
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211269**

Districtnu:	1	Apinumber:	03715928
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211269		

E26
ESE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211694**

Districtnu:	1	Apinumber:	03716430
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pedro Petroleum Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	2-3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211694		

C27
South
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211262**

Districtnu:	1	Apinumber:	03715921
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	6

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211262		

H28
WSW **OIL_GAS** **CAOG11000211434**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716123
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211434		

E29
East **OIL_GAS** **CAOG11000211188**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03715845
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	030-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211188		

E30
East **OIL_GAS** **CAOG11000211178**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03715834
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	032-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211178		

H31
SW **OIL_GAS** **CAOG11000211257**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03715916
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211257		

D32
NNE **OIL_GAS** **CAOG11000211442**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716132
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211442		

Map ID
Direction
Distance

Database EDR ID Number

H33
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211270**

Districtnu:	1	Apinumber:	03715929
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211270		

F34
South
1/8 - 1/4 Mile

OIL_GAS **CAOG11000192571**

Districtnu:	1	Apinumber:	03716426
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	135.516	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Fulton	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192571		

G35
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211427**

Districtnu:	1	Apinumber:	03716116
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	1

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211427		

D36
NNE **OIL_GAS** **CAOG11000211450**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716140
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211450		

D37
NNE **OIL_GAS** **CAOG11000211437**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716127
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211437		

E38
East **OIL_GAS** **CAOG11000211294**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03715956
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	031-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211294		

I39
NE **OIL_GAS** **CAOG11000211290**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03715952
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	011-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211290		

J40
South **OIL_GAS** **CAOG11000192572**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716427
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	124.089	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Fulton	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192572		

Map ID
Direction
Distance

Database EDR ID Number

F41
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211479**

Districtnu:	1	Apinumber:	03716170
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	2-8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211479		

I42
NE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211174**

Districtnu:	1	Apinumber:	03715829
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	G.H.N.	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211174		

H43
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000206870**

Districtnu:	1	Apinumber:	03709008
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Atlantic Richfield Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Elliott	Wellnumber:	2

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206870		

I44
ENE **OIL_GAS** **CAOG11000211190**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03715847
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	017-H
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211190		

F45
SE **OIL_GAS** **CAOG11000211475**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716166
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Geary	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211475		

K46
North **OIL_GAS** **CAOG11000211441**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716131
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211441		

F47
SSE **OIL_GAS** **CAOG11000211600**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716332
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	5	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211600

L48
ESE **OIL_GAS** **CAOG11000192465**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03715848
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	142.715	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	042-H
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192465		

Map ID
Direction
Distance

Database EDR ID Number

L49
East
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211183**

Districtnu:	1	Apinumber:	03715839
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	040-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211183		

M50
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211263**

Districtnu:	1	Apinumber:	03715922
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211263		

L51
ESE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000192463**

Districtnu:	1	Apinumber:	03715831
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	140.538	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	041-B

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192463		

H52
WSW **OIL_GAS** **CAOG11000206869**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03709007
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Atlantic Richfield Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Elliott	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206869		

L53
ESE **OIL_GAS** **CAOG11000211296**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03715958
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	053-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211296		

N54
SSE **OIL_GAS** **CAOG11000211611**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716343
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	15	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211611

O55
SE **OIL_GAS** **CAOG11000211295**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03715957
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Green	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211295		

I56
NNE **OIL_GAS** **CAOG11000211628**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716362
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	31
Township:	02S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Thompson
Wellnumber:	6	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211628

Map ID
Direction
Distance

Database EDR ID Number

I57
NNE **OIL_GAS** **CAOG11000211623**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716357
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	31
Township:	02S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Thompson
Wellnumber:	1	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211623

J58
South **OIL_GAS** **CAOG11000211693**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716429
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pedro Petroleum Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Fulton	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211693		

P59
NNE **OIL_GAS** **CAOG11000211685**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716418
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Edward Nepple	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Nepple-Thompson	Wellnumber:	1

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211685		

J60
South **OIL_GAS** **CAOG11000211275**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03715934
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	20
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211275		

M61
SW **OIL_GAS** **CAOG11000206860**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03708998
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Alco Oil and Gas Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Mohawk-S.K.M.	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206860		

L62
ESE **OIL_GAS** **CAOG11000211297**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03715959
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Green	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211297		

I63
NNE **OIL_GAS** **CAOG11000211419**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716108
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hepler	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211419		

K64
NNW **OIL_GAS** **CAOG11000211446**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716136
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211446		

Map ID
Direction
Distance

Database EDR ID Number

K65
North
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211469**

Districtnu:	1	Apinumber:	03716160
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	1-1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211469		

K66
North
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211411**

Districtnu:	1	Apinumber:	03716100
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	31
Township:	02S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Besser
Wellnumber:	1	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	PDH	Site id:	CAOG11000211411

Q67
East
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211191**

Districtnu:	1	Apinumber:	03715849
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	029-H

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211191		

M68
SSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211271**

Districtnu:	1	Apinumber:	03715930
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211271		

R69
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211445**

Districtnu:	1	Apinumber:	03716135
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211445		

M70
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211689**

Districtnu:	1	Apinumber:	03716422
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Pedro Petroleum Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Clarke	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211689		

J71
South **OIL_GAS** **CAOG11000192575**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716432
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	118.008	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	S.P.-Pedro-Nepple	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192575		

I72
NE **OIL_GAS** **CAOG11000211413**
1/8 - 1/4 Mile

Districtnu:	1	Apinumber:	03716102
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hepler	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211413		

Map ID
Direction
Distance

Database EDR ID Number

Q73
ENE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000211292**

Districtnu:	1	Apinumber:	03715954
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	018-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211292		

J74
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192574**

Districtnu:	1	Apinumber:	03716431
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	127.204	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	S.P.-Pedro-Nepple	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192574		

Q75
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211187**

Districtnu:	1	Apinumber:	03715844
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	019-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211187		

S76
ENE **OIL_GAS** **CAOG11000211189**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715846
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	010-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211189		

P77
North **OIL_GAS** **CAOG11000211625**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716359
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	31
Township:	02S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Thompson
Wellnumber:	3	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211625

Q78
East **OIL_GAS** **CAOG11000211179**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715835
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	028-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211179		

P79
NE **OIL_GAS** **CAOG11000211414**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716103
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hepler	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211414		

T80
South **OIL_GAS** **CAOG11000211273**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715932
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	18
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211273		

Map ID
Direction
Distance

Database EDR ID Number

O81
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211478**

Districtnu:	1	Apinumber:	03716169
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	2-7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211478		

U82
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211429**

Districtnu:	1	Apinumber:	03716118
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211429		

Q83
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192464**

Districtnu:	1	Apinumber:	03715840
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	148.573	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	027-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192464		

N84
SSE **OIL_GAS** **CAOG11000211604**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716336
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	8	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211604

M85
SW **OIL_GAS** **CAOG11000211690**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716423
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pedro Petroleum Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Clarke	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211690		

L86
ESE **OIL_GAS** **CAOG11000192468**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715947
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	140.253	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	051-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192468		

N87
SSE **OIL_GAS** **CAOG11000211620**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716354
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	B-2	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211620

L88
East **OIL_GAS** **CAOG11000211508**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716201
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Standlee	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211508		

Map ID
Direction
Distance

Database EDR ID Number

S89
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211289**

Districtnu:	1	Apinumber:	03715951
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	009-H
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211289		

T90
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192573**

Districtnu:	1	Apinumber:	03716428
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	127.955	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Fulton	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192573		

L91
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211511**

Districtnu:	1	Apinumber:	03716204
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Standlee	Wellnumber:	5

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211511		

N92
SSE **OIL_GAS** **CAOG11000211609**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716341
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	13	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211609

U93
West **OIL_GAS** **CAOG11000211545**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716246
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Clarke	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211545		

O94
SE **OIL_GAS** **CAOG11000211480**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716172
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	2-11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211480		

T95
South **OIL_GAS** **CAOG11000211261**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715920
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211261		

S96
ENE **OIL_GAS** **CAOG11000211177**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715833
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	008-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211177		

Map ID
Direction
Distance

Database EDR ID Number

T97
South **OIL_GAS** **CAOG11000211692**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716425
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pedro Petroleum Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Fulton	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211692		

O98
SE **OIL_GAS** **CAOG11000211276**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715935
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wieczorek Estates	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211276		

99
NNW **OIL_GAS** **CAOG11000211472**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716163
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	1-4

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211472		

V100
ESE **OIL_GAS** **CAOG11000211283**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715942
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Baldwin	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211283		

W101
SE **OIL_GAS** **CAOG11000211614**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716347
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Sage-California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Slusher	Wellnumber:	20
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211614		

O102
SE **OIL_GAS** **CAOG11000211473**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716164
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	2-1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211473		

V103
ESE **OIL_GAS** **CAOG11000211285**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715944
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	052-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211285		

X104
SW **OIL_GAS** **CAOG11000211691**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716424
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pedro Petroleum Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Clarke	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211691		

Map ID
Direction
Distance

Database EDR ID Number

Y105
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211601**

Districtnu:	1	Apinumber:	03716333
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	6	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	PDH	Site id:	CAOG11000211601

Z106
North
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211470**

Districtnu:	1	Apinumber:	03716161
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	1-2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211470		

S107
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211418**

Districtnu:	1	Apinumber:	03716107
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hepler	Wellnumber:	7

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211418		

V108
ESE **OIL_GAS** **CAOG11000210968**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715556
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Dewenter	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210968		

AA109
SSW **OIL_GAS** **CAOG11000211267**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715926
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211267		

P110
NNE **OIL_GAS** **CAOG11000211624**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716358
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	31
Township:	02S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Thompson
Wellnumber:	2	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211624

111
WSW **OIL_GAS** **CAOG11000211547**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716248
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Clarke	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211547		

Y112
South **OIL_GAS** **CAOG11000211602**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716334
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	6-A	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	PDH	Site id:	CAOG11000211602

Map ID
Direction
Distance

Database EDR ID Number

V113
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211512**

Districtnu:	1	Apinumber:	03716205
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	045-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211512		

AB114
NNE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211675**

Districtnu:	1	Apinumber:	03716408
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Morton and Dolley	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Dallugge	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211675		

AA115
SSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211272**

Districtnu:	1	Apinumber:	03715931
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	17

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211272		

Q116
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211176**

Districtnu:	1	Apinumber:	03715832
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	026-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211176		

V117
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211166**

Districtnu:	1	Apinumber:	03715817
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	062-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211166		

R118
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211432**

Districtnu:	1	Apinumber:	03716121
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211432		

S119
NE **OIL_GAS** **CAOG11000211416**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716105
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hepler	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211416		

Y120
South **OIL_GAS** **CAOG11000211615**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716348
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	23	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211615

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AB121
NNE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210414**

Districtnu:	1	Apinumber:	03714790
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Harry Briggs	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Dallugge	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210414		

T122
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211265**

Districtnu:	1	Apinumber:	03715924
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211265		

Q123
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211192**

Districtnu:	1	Apinumber:	03715850
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	024-P

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211192		

V124
ESE **OIL_GAS** **CAOG11000192467**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715946
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	143.58	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	049-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192467		

AB125
NNE **OIL_GAS** **CAOG11000211677**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716410
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Morton and Dolley	Countyname:	Los Angeles
Fieldname:	Brea-Olinda	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Dallugge	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211677		

X126
SW **OIL_GAS** **CAOG11000210965**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715553
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Clarke	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210965		

V127
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192466**

Districtnu:	1	Apinumber:	03715945
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	145.038	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	050-H
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192466		

AC128
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211173**

Districtnu:	1	Apinumber:	03715828
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	025-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211173		

Map ID
Direction
Distance

Database EDR ID Number

AA129
SSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211546**

Districtnu:	1	Apinumber:	03716247
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Clarke	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211546		

W130
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211619**

Districtnu:	1	Apinumber:	03716353
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	B-1	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211619

AD131
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211186**

Districtnu:	1	Apinumber:	03715843
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	007-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211186		

AC132
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211509**

Districtnu:	1	Apinumber:	03716202
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	046-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211509		

AC133
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211184**

Districtnu:	1	Apinumber:	03715841
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	023-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211184		

W134
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192569**

Districtnu:	1	Apinumber:	03716344
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	123.254	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Slusher	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192569		

W135
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211597**

Districtnu:	1	Apinumber:	03716329
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Sage-California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Slusher	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211597		

Y136
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192570**

Districtnu:	1	Apinumber:	03716352
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	133.576	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Slusher	Wellnumber:	29
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192570		

Map ID
Direction
Distance

Database EDR ID Number

AC137
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211293**

Districtnu:	1	Apinumber:	03715955
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	022-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211293		

Y138
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000194166**

Districtnu:	1	Apinumber:	03723343
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	125.836	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Slusher	Wellnumber:	30
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000194166		

W139
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211621**

Districtnu:	1	Apinumber:	03716355
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher

Wellnumber:	B-3	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	PDH	Site id:	CAOG11000211621

AC140
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211182**

Districtnu:	1	Apinumber:	03715838
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	021-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211182		

AD141
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211180**

Districtnu:	1	Apinumber:	03715836
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	006-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211180		

AC142
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211507**

Districtnu:	1	Apinumber:	03716200
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Standlee	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211507		

AC143
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211510**

Districtnu:	1	Apinumber:	03716203
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	048-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211510		

AC144
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211185**

Districtnu:	1	Apinumber:	03715842
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	020-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211185		

Map ID
Direction
Distance

Database EDR ID Number

Y145
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211616**

Districtnu:	1	Apinumber:	03716349
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	24	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211616

AE146
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210967**

Districtnu:	1	Apinumber:	03715555
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Dewenter	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210967		

V147
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211284**

Districtnu:	1	Apinumber:	03715943
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Baldwin	Wellnumber:	3

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211284		

AF148
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211607**

Districtnu:	1	Apinumber:	03716339
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	11	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211607

AF149
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211274**

Districtnu:	1	Apinumber:	03715933
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211274		

X150
SW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211549**

Districtnu:	1	Apinumber:	03716250
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Clarke	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211549		

W151
SE **OIL_GAS** **CAOG11000211622**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716356
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	B-3A	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211622

AG152
WNW **OIL_GAS** **CAOG11000211447**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716137
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Gertrudes	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211447		

Map ID
Direction
Distance

Database EDR ID Number

AH153
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211431**

Districtnu:	1	Apinumber:	03716120
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211431		

AD154
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211172**

Districtnu:	1	Apinumber:	03715827
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	005-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211172		

AD155
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211558**

Districtnu:	1	Apinumber:	03716277
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	G.H.N.	Wellnumber:	25

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211558		

AE156
SE **OIL_GAS** **CAOG11000210969**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715557
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Dewenter	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210969		

V157
ESE **OIL_GAS** **CAOG11000211282**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715941
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Baldwin	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211282		

Z158
North **OIL_GAS** **CAOG11000211471**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716162
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	1-3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211471		

AI159
NE **OIL_GAS** **CAOG11000211680**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716413
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Morton and Dolley	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Dallugge	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211680		

AJ160
SSE **OIL_GAS** **CAOG11000211608**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716340
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	12	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211608

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AK161
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192458**

Districtnu:	1	Apinumber:	03715819
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	145.446	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	De Wenter	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192458		

AF162
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211617**

Districtnu:	1	Apinumber:	03716350
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	26	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211617

AL163
NNE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211626**

Districtnu:	1	Apinumber:	03716360
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	31
Township:	02S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Thompson

Wellnumber:	4	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211626

AF164
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211266**

Districtnu:	1	Apinumber:	03715925
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211266		

AK165
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210970**

Districtnu:	1	Apinumber:	03715558
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Dewenter	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210970		

AI166
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211678**

Districtnu:	1	Apinumber:	03716411
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Morton and Dolley	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Dallugge	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211678		

AK167
ESE **OIL_GAS** **CAOG11000210966**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715554
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Dewenter	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210966		

AM168
SSW **OIL_GAS** **CAOG11000211260**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715919
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211260		

Map ID
Direction
Distance

Database EDR ID Number

AD169
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211412**

Districtnu:	1	Apinumber:	03716101
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	CSIP WR Santa Fe Springs LLC	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hepler	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211412		

170
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210456**

Districtnu:	1	Apinumber:	03714839
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Elliott Consolidated Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210456		

AH171
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210963**

Districtnu:	1	Apinumber:	03715551
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Clarke	Wellnumber:	9

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210963		

AD172
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211417**

Districtnu:	1	Apinumber:	03716106
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	CSIP WR Santa Fe Springs LLC	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hepler	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211417		

AJ173
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211610**

Districtnu:	1	Apinumber:	03716342
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	14	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211610

AE174
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211487**

Districtnu:	1	Apinumber:	03716179
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	3-6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211487		

AD175
ENE **OIL_GAS** **CAOG11000211415**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716104
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	CSIP WR Santa Fe Springs LLC	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hepler	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211415		

AK176
ESE **OIL_GAS** **CAOG11000192457**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715818
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	141.98	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	De Wenter	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	4358	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192457		

Map ID
Direction
Distance

Database EDR ID Number

AC177
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211821**

Districtnu:	1	Apinumber:	03716680
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211821		

AC178
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211823**

Districtnu:	1	Apinumber:	03716682
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211823		

AC179
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211818**

Districtnu:	1	Apinumber:	03716677
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	4

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211818		

AE180
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211167**

Districtnu:	1	Apinumber:	03715820
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	De Wenter	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211167		

AJ181
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211618**

Districtnu:	1	Apinumber:	03716351
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	28	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211618

AN182
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211032**

Districtnu:	1	Apinumber:	03715617
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211032		

AI183
NE **OIL_GAS** **CAOG11000210407**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03714776
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Bell Petroleum Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Dallugge	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000210407		

AK184
ESE **OIL_GAS** **CAOG11000211313**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715980
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211313		

Map ID
Direction
Distance

Database EDR ID Number

AO185
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211824**

Districtnu:	1	Apinumber:	03716683
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211824		

AM186
SSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211543**

Districtnu:	1	Apinumber:	03716244
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Clarke	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211543		

AC187
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211831**

Districtnu:	1	Apinumber:	03716690
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	17

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211831		

AE188
SE **OIL_GAS** **CAOG11000210928**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715516
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hodge & Hogan	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern Three (nct-1)	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210928		

AJ189
SSE **OIL_GAS** **CAOG11000211603**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716335
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	7	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211603

AN190
East **OIL_GAS** **CAOG11000211866**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716733
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Sleeper	Wellnumber:	37
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211866		

AJ191
SSE **OIL_GAS** **CAOG11000211613**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716346
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	18	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211613

AN192
East **OIL_GAS** **CAOG11000211867**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716734
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Sleeper	Wellnumber:	55
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211867		

Map ID
Direction
Distance

Database EDR ID Number

AO193
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211822**

Districtnu:	1	Apinumber:	03716681
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211822		

AN194
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211031**

Districtnu:	1	Apinumber:	03715616
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211031		

AP195
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210457**

Districtnu:	1	Apinumber:	03714840
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Elliott Consolidated Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Clarke	Wellnumber:	1

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000210457		

AO196
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211827**

Districtnu:	1	Apinumber:	03716686
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211827		

AO197
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211056**

Districtnu:	1	Apinumber:	03715650
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211056		

AN198
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211839**

Districtnu:	1	Apinumber:	03716698
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	98
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211839		

AN199
ESE **OIL_GAS** **CAOG11000211836**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716695
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	36
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211836		

AI200
NE **OIL_GAS** **CAOG11000211679**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716412
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Morton and Dolley	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Dallugge	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211679		

Map ID
Direction
Distance

Database EDR ID Number

AF201
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000200685**

Districtnu:	1	Apinumber:	03700124
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	27	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000200685

AG202
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211424**

Districtnu:	1	Apinumber:	03716113
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	W.L. Houghton	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211424		

AQ203
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211837**

Districtnu:	1	Apinumber:	03716696
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	50

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211837		

AJ204
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211493**

Districtnu:	1	Apinumber:	03716185
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	3-15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211493		

AR205
NNE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211676**

Districtnu:	1	Apinumber:	03716409
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Morton and Dolley	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Dallugge	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211676		

AF206
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211606**

Districtnu:	1	Apinumber:	03716338
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	10	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211606

AH207
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211423**

Districtnu:	1	Apinumber:	03716112
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	W.L. Houghton	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211423		

AS208
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211681**

Districtnu:	1	Apinumber:	03716414
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Morton and Dolley	Countyname:	Los Angeles
Fieldname:	Torrance	Areaname:	Onshore
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Higley	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211681		

Map ID
Direction
Distance

Database EDR ID Number

AL209
NNE **OIL_GAS** **CAOG11000211627**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716361
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	B
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	31
Township:	02S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Thompson
Wellnumber:	5	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	AOG	Site id:	CAOG11000211627

AT210
SE **OIL_GAS** **CAOG11000211489**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716181
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	3-8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211489		

AU211
ENE **OIL_GAS** **CAOG11000211828**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716687
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	14

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211828		

AT212
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211312**

Districtnu:	1	Apinumber:	03715979
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211312		

AJ213
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211490**

Districtnu:	1	Apinumber:	03716182
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	3-9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211490		

AV214
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211268**

Districtnu:	1	Apinumber:	03715927
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211268		

AW215
SW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211548**

Districtnu:	1	Apinumber:	03716249
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Clarke	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211548		

AK216
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211835**

Districtnu:	1	Apinumber:	03716694
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	35
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211835		

Map ID
Direction
Distance

Database EDR ID Number

AK217
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211832**

Districtnu:	1	Apinumber:	03716691
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211832		

AT218
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210971**

Districtnu:	1	Apinumber:	03715559
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210971		

AU219
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211055**

Districtnu:	1	Apinumber:	03715649
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	B
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	1

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000211055		

AM220
SSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211259**

Districtnu:	1	Apinumber:	03715918
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211259		

AT221
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000206866**

Districtnu:	1	Apinumber:	03709004
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Atlantic Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206866		

AX222
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211488**

Districtnu:	1	Apinumber:	03716180
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	3-7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211488		

AQ223
ESE **OIL_GAS** **CAOG11000211833**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716692
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	26
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211833		

AO224
East **OIL_GAS** **CAOG11000211819**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716678
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211819		

Map ID
Direction
Distance

Database EDR ID Number

AU225
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211817**

Districtnu:	1	Apinumber:	03716676
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211817		

AY226
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211825**

Districtnu:	1	Apinumber:	03716684
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211825		

AP227
SW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211544**

Districtnu:	1	Apinumber:	03716245
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Clarke	Wellnumber:	2

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211544		

AY228
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211829**

Districtnu:	1	Apinumber:	03716688
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211829		

AZ229
SSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211869**

Districtnu:	1	Apinumber:	03716736
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	A. Wardman	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Boeseke	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211869		

BA230
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211660**

Districtnu:	1	Apinumber:	03716394
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Orr	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211660		

AZ231
SSW **OIL_GAS** **CAOG11000211226**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715884
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Standard-Wardman	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211226		

AO232
ENE **OIL_GAS** **CAOG11000211826**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716685
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211826		

Map ID
Direction
Distance

Database EDR ID Number

233
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211420**

Districtnu:	1	Apinumber:	03716109
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	A.O. Houghton	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211420		

BA234
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211663**

Districtnu:	1	Apinumber:	03716397
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Orr	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211663		

AN235
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210991**

Districtnu:	1	Apinumber:	03715578
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	15

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210991		

BB236
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192343**

Districtnu:	1	Apinumber:	03715477
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pyramid Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	134.653	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Batson	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192343		

BB237
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211834**

Districtnu:	1	Apinumber:	03716693
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	30
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211834		

AU238
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211820**

Districtnu:	1	Apinumber:	03716679
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211820		

AS239
NE **OIL_GAS** **CAOG11000211674**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716407
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Morton and Dolley	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Dallugge	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211674		

BB240
ESE **OIL_GAS** **CAOG11000211030**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715615
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211030		

Map ID
Direction
Distance

Database EDR ID Number

AQ241
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211009**

Districtnu:	1	Apinumber:	03715594
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	31
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211009		

AS242
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211027**

Districtnu:	1	Apinumber:	03715612
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211027		

AT243
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211483**

Districtnu:	1	Apinumber:	03716175
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Mattern	Wellnumber:	3-2

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211483		

AN244
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210981**

Districtnu:	1	Apinumber:	03715569
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210981		

BA245
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211661**

Districtnu:	1	Apinumber:	03716395
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Orr	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211661		

AW246
SSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211870**

Districtnu:	1	Apinumber:	03716737
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	A. Wardman	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Boeseke	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211870		

AN247
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210999**

Districtnu:	1	Apinumber:	03715586
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	23
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210999		

AQ248
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210990**

Districtnu:	1	Apinumber:	03715577
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210990		

Map ID
Direction
Distance

Database EDR ID Number

BB249
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211838**

Districtnu:	1	Apinumber:	03716697
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jordan	Wellnumber:	54
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211838		

AW250
SW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210964**

Districtnu:	1	Apinumber:	03715552
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	B
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Clarke	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210964		

BC251
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211599**

Districtnu:	1	Apinumber:	03716331
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher

Wellnumber:	4	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211599

AY252
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211012**

Districtnu:	1	Apinumber:	03715597
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	34
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211012		

AT253
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211484**

Districtnu:	1	Apinumber:	03716176
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	3-2A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211484		

BC254
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211598**

Districtnu:	1	Apinumber:	03716330
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	3	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211598

BB255
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210907**

Districtnu:	1	Apinumber:	03715476
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pyramid Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Batson	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210907		

AQ256
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210980**

Districtnu:	1	Apinumber:	03715568
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210980		

Map ID
Direction
Distance

Database EDR ID Number

BD257
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211830**

Districtnu:	1	Apinumber:	03716689
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Howard	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211830		

AV258
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211605**

Districtnu:	1	Apinumber:	03716337
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	9	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211605

AR259
NNE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211277**

Districtnu:	1	Apinumber:	03715936
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wolfskill	Wellnumber:	2

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211277		

AX260
SSE **OIL_GAS** **CAOG11000211496**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716189
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Sage-California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	3-16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211496		

BB262
SE **OIL_GAS** **CAOG11000192346**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715479
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	139.595	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-276-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000192346		

BB261
SE **OIL_GAS** **CAOG11000192345**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715479
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	139.595	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-276-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000192345		

AQ263
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211006**

Districtnu:	1	Apinumber:	03715591
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	28
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211006		

AQ264
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210995**

Districtnu:	1	Apinumber:	03715582
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210995		

Map ID
Direction
Distance

Database EDR ID Number

AT265
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211495**

Districtnu:	1	Apinumber:	03716188
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Sage-California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	3-11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211495		

AZ266
SSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211258**

Districtnu:	1	Apinumber:	03715917
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211258		

AW267
SSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211871**

Districtnu:	1	Apinumber:	03716738
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	A. Wardman	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Boeseke	Wellnumber:	3

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211871		

AV268
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211264**

Districtnu:	1	Apinumber:	03715923
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weisel	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211264		

BE269
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210989**

Districtnu:	1	Apinumber:	03715576
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210989		

BF270
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211596**

Districtnu:	1	Apinumber:	03716328
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher
Wellnumber:	1	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211596

BB271
ESE **OIL_GAS** **CAOG11000210906**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03715475
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	275-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210906		

AX272
SSE **OIL_GAS** **CAOG11000211682**
1/4 - 1/2 Mile

Districtnu:	1	Apinumber:	03716415
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Morton & Elder	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211682		

Map ID
Direction
Distance

Database EDR ID Number

273
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211376**

Districtnu:	1	Apinumber:	03716061
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	B
Operatorna:	J.H. Roth	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Roth	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000211376		

AZ274
SSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211134**

Districtnu:	1	Apinumber:	03715775
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	C. C. Julian	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211134		

275
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000211659**

Districtnu:	1	Apinumber:	03716393
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Orr	Wellnumber:	1

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211659		

BE276
ESE **OIL_GAS** **CAOG11000211011**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715596
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	33
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211011		

BB277
ESE **OIL_GAS** **CAOG11000210921**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715504
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	261-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210921		

BG278
East **OIL_GAS** **CAOG11000211008**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715593
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	30
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211008		

BB279
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000215210**

Districtnu:	1	Apinumber:	03723918
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	City of Santa Fe Springs	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Unknown	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000215210		

BH280
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000211278**

Districtnu:	1	Apinumber:	03715937
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wolfskill	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211278		

Map ID
Direction
Distance

Database EDR ID Number

BE281
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211017**

Districtnu:	1	Apinumber:	03715602
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	39
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211017		

BB282
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192344**

Districtnu:	1	Apinumber:	03715478
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pyramid Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	136.397	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Batson	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192344		

BF283
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211612**

Districtnu:	1	Apinumber:	03716345
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Shell Western Exploration & Production Inc.		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Slusher

Wellnumber:	17	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211612

BE284
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210997**

Districtnu:	1	Apinumber:	03715584
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210997		

BH285
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000211629**

Districtnu:	1	Apinumber:	03716363
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Sibert Petro. Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wolfskill	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211629		

BF286
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211485**

Districtnu:	1	Apinumber:	03716177
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Mattern	Wellnumber:	3-3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211485		

BI287
SE **OIL_GAS** **CAOG11000211110**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715751
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wilshire-Annex Koontz	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211110		

BB288
SE **OIL_GAS** **CAOG11000210916**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715496
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	367-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210916		

Map ID
Direction
Distance

Database EDR ID Number

BE289
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210979**

Districtnu:	1	Apinumber:	03715567
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210979		

BB290
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192358**

Districtnu:	1	Apinumber:	03715505
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	141.819	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	277-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192358		

BJ291
SW
1/2 - 1 Mile

OIL_GAS **CAOG11000211872**

Districtnu:	1	Apinumber:	03716739
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	A. Wardman	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Boeseke	Wellnumber:	4

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211872		

BE292
ESE **OIL_GAS** **CAOG11000210986**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715573
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210986		

BK293
SE **OIL_GAS** **CAOG11000211494**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716187
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	3-4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211494		

BL294
East **OIL_GAS** **CAOG11000190603**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709032
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	146.369	Locationde:	Clark-Hathaway
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-214-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190603		

BL295
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190604**

Districtnu:	1	Apinumber:	03709032
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	146.369	Locationde:	Clark-Hathaway
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-214-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190604		

BM296
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192357**

Districtnu:	1	Apinumber:	03715502
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	147.83	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	262-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192357		

Map ID
Direction
Distance

Database EDR ID Number

BI297
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211111**

Districtnu:	1	Apinumber:	03715752
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wilshire-Annex Koontz	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211111		

BM298
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192361**

Districtnu:	1	Apinumber:	03715507
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	140.498	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-263-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192361		

BM299
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192362**

Districtnu:	1	Apinumber:	03715507
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	140.498	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-263-P

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192362		

BF300
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000192337**

Districtnu:	1	Apinumber:	03715464
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	136.562	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Hathaway	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192337		

BF301
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211630**

Districtnu:	1	Apinumber:	03716364
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	J. A. Smith	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211630		

BN302
South
1/2 - 1 Mile

OIL_GAS **CAOG11000192336**

Districtnu:	1	Apinumber:	03715462
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	121.269	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Hathaway	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192336		

BI303
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210917**

Districtnu:	1	Apinumber:	03715498
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	359-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210917		

BM305
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192360**

Districtnu:	1	Apinumber:	03715506
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	142.372	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-274-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192360		

Map ID
Direction
Distance

Database EDR ID Number

BM304
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192359**

Districtnu:	1	Apinumber:	03715506
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	142.372	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-274-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192359		

306
West
1/2 - 1 Mile

OIL_GAS **CAOG11000211662**

Districtnu:	1	Apinumber:	03716396
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Orr	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211662		

BI307
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211112**

Districtnu:	1	Apinumber:	03715753
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wilshire-Annex Koontz	Wellnumber:	5

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211112		

BN308
South
1/2 - 1 Mile

OIL_GAS **CAOG11000210949**

Districtnu:	1	Apinumber:	03715537
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Fraser	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210949		

BD309
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000190622**

Districtnu:	1	Apinumber:	03709047
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	154.9	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	208-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190622		

BH310
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000211026**

Districtnu:	1	Apinumber:	03715611
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211026		

BL311
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190617**

Districtnu:	1	Apinumber:	03709044
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	149.652	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-215-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190617		

BL312
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190618**

Districtnu:	1	Apinumber:	03709044
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	149.652	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-215-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190618		

Map ID
Direction
Distance

Database EDR ID Number

BK313
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211492**

Districtnu:	1	Apinumber:	03716184
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	3-12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211492		

BC314
South
1/2 - 1 Mile

OIL_GAS **CAOG11000192335**

Districtnu:	1	Apinumber:	03715461
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	130.792	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Hathaway	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192335		

BI315
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210910**

Districtnu:	1	Apinumber:	03715482
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	368-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210910		

BM316
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192454**

Districtnu:	1	Apinumber:	03715811
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	134.953	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	264-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192454		

BG317
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210982**

Districtnu:	1	Apinumber:	03715570
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000210982		

BG318
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210983**

Districtnu:	1	Apinumber:	03715570
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000210983		

319
West
1/2 - 1 Mile

OIL_GAS **CAOG11000211421**

Districtnu:	1	Apinumber:	03716110
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	A.O. Houghton	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211421		

BN320
SSW
1/2 - 1 Mile

OIL_GAS **CAOG11000210946**

Districtnu:	1	Apinumber:	03715534
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Fraser	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210946		

Map ID
Direction
Distance

Database EDR ID Number

BF321
South
1/2 - 1 Mile

OIL_GAS **CAOG11000192334**

Districtnu:	1	Apinumber:	03715459
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	134.712	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Hathaway	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192334		

322
SW
1/2 - 1 Mile

OIL_GAS **CAOG11000211255**

Districtnu:	1	Apinumber:	03715914
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Watson	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211255		

BJ323
SSW
1/2 - 1 Mile

OIL_GAS **CAOG11000211135**

Districtnu:	1	Apinumber:	03715776
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	C. C. Julian	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	5

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211135		

BM324
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192455**

Districtnu:	1	Apinumber:	03715812
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	136.889	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	273-N
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192455		

BM325
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210920**

Districtnu:	1	Apinumber:	03715503
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	278-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210920		

BE326
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211013**

Districtnu:	1	Apinumber:	03715598
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	35
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211013		

BL327
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192117**

Districtnu:	1	Apinumber:	03714762
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	146.938	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	217-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192117		

BD329
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000188584**

Districtnu:	1	Apinumber:	03700094
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	155.309	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-203-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000188584		

Map ID
Direction
Distance

Database EDR ID Number

BD328
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000188583**

Districtnu:	1	Apinumber:	03700094
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	155.309	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-203-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000188583		

BL330
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190630**

Districtnu:	1	Apinumber:	03709057
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	153.875	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-216-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190630		

BL331
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190631**

Districtnu:	1	Apinumber:	03709057
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	153.875	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-216-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190631		

BI332
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210445**

Districtnu:	1	Apinumber:	03714827
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Tom Donley Land & Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210445		

BN333
South
1/2 - 1 Mile

OIL_GAS **CAOG11000210972**

Districtnu:	1	Apinumber:	03715560
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S.P.	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210972		

BM334
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211378**

Districtnu:	1	Apinumber:	03716064
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	265-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211378		

BI335
SE **OIL_GAS** **CAOG11000192355**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715497
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	140.473	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	358-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192355		

BO336
SSE **OIL_GAS** **CAOG11000211486**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716178
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	3-5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211486		

Map ID
Direction
Distance

Database EDR ID Number

BG337
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211000**

Districtnu:	1	Apinumber:	03715587
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	24
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211000		

BE338
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211015**

Districtnu:	1	Apinumber:	03715600
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	37
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211015		

BI339
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210938**

Districtnu:	1	Apinumber:	03715526
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Annex-Eagle	Wellnumber:	2

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210938		

BG340
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211001**

Districtnu:	1	Apinumber:	03715588
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	25
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000211001		

BG341
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211002**

Districtnu:	1	Apinumber:	03715588
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	25
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000211002		

BM342
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210435**

Districtnu:	1	Apinumber:	03714817
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Wilber J. Cox	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210435		

BM343
ESE **OIL_GAS** **CAOG11000211163**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715813
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	271-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211163		

BM344
ESE **OIL_GAS** **CAOG11000210432**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714814
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Wilber J. Cox	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000210432		

Map ID
Direction
Distance

Database EDR ID Number

BP345
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000192125**

Districtnu:	1	Apinumber:	03714770
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	153.559	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-200-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192125		

BP347
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000192127**

Districtnu:	1	Apinumber:	03714770
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	153.559	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-200-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192127		

BP346
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000192126**

Districtnu:	1	Apinumber:	03714770
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	153.559	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-200-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192126		

BQ348
ESE **OIL_GAS** **CAOG11000210984**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715571
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210984		

BM349
ESE **OIL_GAS** **CAOG11000210433**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714815
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Wilber J. Cox	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210433		

BF350
SSE **OIL_GAS** **CAOG11000210462**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714845
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	First National Finance Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210462		

BG351
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211007**

Districtnu:	1	Apinumber:	03715592
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	29
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211007		

BG352
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210993**

Districtnu:	1	Apinumber:	03715580
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	17
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210993		

Map ID
Direction
Distance

Database EDR ID Number

BM353
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192144**

Districtnu:	1	Apinumber:	03714813
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Wilber J. Cox	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	140.225	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Alexander	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192144		

BM354
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211164**

Districtnu:	1	Apinumber:	03715814
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	272-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211164		

BF355
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000206882**

Districtnu:	1	Apinumber:	03709021
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Barnhart-Morrow Consolidated	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	3

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206882		

BO356
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211635**

Districtnu:	1	Apinumber:	03716369
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	J. A. Smith	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Julian	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211635		

BE357
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210987**

Districtnu:	1	Apinumber:	03715574
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210987		

BR358
SSW
1/2 - 1 Mile

OIL_GAS **CAOG11000211398**

Districtnu:	1	Apinumber:	03716087
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Russell Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211398		

BQ359
ESE **OIL_GAS** **CAOG11000211014**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715599
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	36
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211014		

BM360
ESE **OIL_GAS** **CAOG11000210978**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715566
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210978		

Map ID
Direction
Distance

Database EDR ID Number

BF361
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211631**

Districtnu:	1	Apinumber:	03716365
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	J. A. Smith	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211631		

BI362
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211144**

Districtnu:	1	Apinumber:	03715785
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	McKeon Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Melczer	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211144		

BK363
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211875**

Districtnu:	1	Apinumber:	03716742
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Westates Petroleum Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Archer	Wellnumber:	1

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211875		

BQ364
ESE **OIL_GAS** **CAOG11000210998**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715585
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	22
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210998		

BM365
ESE **OIL_GAS** **CAOG11000210434**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714816
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Wilber J. Cox	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210434		

BI366
SE **OIL_GAS** **CAOG11000210428**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714809
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Coast Supply Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	72
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210428		

BI367
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211125**

Districtnu:	1	Apinumber:	03715766
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Industrial Oil Synd. #3	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	32
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211125		

BN368
South
1/2 - 1 Mile

OIL_GAS **CAOG11000210898**

Districtnu:	1	Apinumber:	03715463
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Greene-Howard Petro. Corp.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hathaway	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210898		

Map ID
Direction
Distance

Database EDR ID Number

BS369
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000206881**

Districtnu:	1	Apinumber:	03709020
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Barnhart-Morrow Consolidated	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206881		

BK370
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000206862**

Districtnu:	1	Apinumber:	03709000
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Floyd M. Morris	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000206862		

BQ371
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211005**

Districtnu:	1	Apinumber:	03715590
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	27

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211005		

BI372
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210880**

Districtnu:	1	Apinumber:	03715442
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S.F.S.	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210880		

BI373
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000206880**

Districtnu:	1	Apinumber:	03709019
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Fred A. Ballin	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000206880		

BT375
South
1/2 - 1 Mile

OIL_GAS **CAOG11000192339**

Districtnu:	1	Apinumber:	03715465
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	132.172	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Hathaway	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192339		

BT374
South
1/2 - 1 Mile

OIL_GAS **CAOG11000192338**

Districtnu:	1	Apinumber:	03715465
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	132.172	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Hathaway	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192338		

BN376
South
1/2 - 1 Mile

OIL_GAS **CAOG11000210950**

Districtnu:	1	Apinumber:	03715538
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Fraser	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210950		

Map ID
Direction
Distance

Database EDR ID Number

BJ377
SW
1/2 - 1 Mile

OIL_GAS **CAOG11000210466**

Districtnu:	1	Apinumber:	03714849
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Fred B. Foster & Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	52
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000210466		

BM378
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210394**

Districtnu:	1	Apinumber:	03714745
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	369-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210394		

BM379
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211461**

Districtnu:	1	Apinumber:	03716151
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Foix	Wellnumber:	4

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211461		

BM380
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211465**

Districtnu:	1	Apinumber:	03716156
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Foix	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211465		

BI381
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210393**

Districtnu:	1	Apinumber:	03714744
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	357-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210393		

BU382
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210976**

Districtnu:	1	Apinumber:	03715564
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	B

Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210976		

BI383
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211876**

Districtnu:	1	Apinumber:	03716743
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Westates Petroleum Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Archer	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211876		

BI384
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210923**

Districtnu:	1	Apinumber:	03715510
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pyramid Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wilshire-Cecelia	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210923		

Map ID
Direction
Distance

Database EDR ID Number

BK385
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210864**

Districtnu:	1	Apinumber:	03715426
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	O'connell	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210864		

BM386
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192102**

Districtnu:	1	Apinumber:	03714746
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	145.251	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	366-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192102		

BV387
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000211640**

Districtnu:	1	Apinumber:	03716374
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Donnelly	Wellnumber:	1

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211640		

BI388
SE **OIL_GAS** **CAOG11000210924**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715511
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pyramid Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wilshire-Cecelia	Wellnumber:	1-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210924		

BK389
SE **OIL_GAS** **CAOG11000211482**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716174
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Mattern	Wellnumber:	3-1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211482		

BO390
SSE **OIL_GAS** **CAOG11000211633**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716367
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	J. A. Smith	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Italo-Brunson	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211633		

BK391
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211491**

Districtnu:	1	Apinumber:	03716183
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Matern	Wellnumber:	3-10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211491		

BT392
South
1/2 - 1 Mile

OIL_GAS **CAOG11000210899**

Districtnu:	1	Apinumber:	03715466
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hathaway	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210899		

Map ID
Direction
Distance

Database EDR ID Number

BO393
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000206883**

Districtnu:	1	Apinumber:	03709022
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Barnhart-Morrow Consolidated	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206883		

BW394
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210869**

Districtnu:	1	Apinumber:	03715431
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S.F.S.	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000210869		

BM395
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211287**

Districtnu:	1	Apinumber:	03715949
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Foix	Wellnumber:	2

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211287		

BV396
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000211688**

Districtnu:	1	Apinumber:	03716421
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pacific Clay Products	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Donnelly	Wellnumber:	1-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211688		

BI397
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210922**

Districtnu:	1	Apinumber:	03715508
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	356-K
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210922		

BI398
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210942**

Districtnu:	1	Apinumber:	03715530
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bossick	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210942		

BQ399
ESE **OIL_GAS** **CAOG11000210992**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715579
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210992		

BK400
SE **OIL_GAS** **CAOG11000210865**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715427
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S.F.S.	Wellnumber:	43
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210865		

Map ID
Direction
Distance

Database EDR ID Number

BW401
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210878**

Districtnu:	1	Apinumber:	03715440
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S.F.S.	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210878		

BK402
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210378**

Districtnu:	1	Apinumber:	03714729
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Blanchard	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210378		

BI403
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211120**

Districtnu:	1	Apinumber:	03715761
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wilshire-Crawford	Wellnumber:	2

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211120		

BR404
SSW **OIL_GAS** **CAOG11000210947**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715535
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Fraser	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210947		

BQ406
ESE **OIL_GAS** **CAOG11000211004**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715589
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	26
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000211004		

BQ405
ESE **OIL_GAS** **CAOG11000211003**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715589
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	26
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000211003		

BI407
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211118**

Districtnu:	1	Apinumber:	03715759
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wilshire-Crawford	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211118		

BU408
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211010**

Districtnu:	1	Apinumber:	03715595
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	32
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211010		

Map ID
Direction
Distance

Database EDR ID Number

BS409
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000192349**

Districtnu:	1	Apinumber:	03715487
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	143.444	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Jalk	Wellnumber:	112
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192349		

BQ410
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210985**

Districtnu:	1	Apinumber:	03715572
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000210985		

BI411
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210943**

Districtnu:	1	Apinumber:	03715531
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Crawford	Wellnumber:	1

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210943		

BX412
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210925**

Districtnu:	1	Apinumber:	03715512
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pyramid Oil Company	Countyname:	Los Angeles
Fieldname:	Salt Lake	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	WILSHIRE-CECELIA	Wellnumber:	1-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210925		

BM413
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210440**

Districtnu:	1	Apinumber:	03714822
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Wilber J. Cox	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wardman	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210440		

BK414
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210376**

Districtnu:	1	Apinumber:	03714727
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Blanchard	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210376		

BY415
ESE **OIL_GAS** **CAOG11000210996**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715583
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	20
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210996		

BS416
SSE **OIL_GAS** **CAOG11000210463**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714846
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	First National Finance Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Barnhart-Morrow Cons.	Wellnumber:	17
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210463		

Map ID
Direction
Distance

Database EDR ID Number

BX417
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211165**

Districtnu:	1	Apinumber:	03715815
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	365-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211165		

BO418
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000206884**

Districtnu:	1	Apinumber:	03709023
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Barnhart-Morrow Consolidated	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Italo Brunson	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206884		

BX419
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210438**

Districtnu:	1	Apinumber:	03714820
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Wilber J. Cox	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wardman	Wellnumber:	5

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210438		

BW420
SE **OIL_GAS** **CAOG11000210944**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715532
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Crawford	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000210944		

BT421
South **OIL_GAS** **CAOG11000210897**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715460
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hathaway	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210897		

BO422
SSE **OIL_GAS** **CAOG11000211281**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715940
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Crown Central Petroleum Corp.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211281		

BX423
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210892**

Districtnu:	1	Apinumber:	03715454
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Gordon L. Graham	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Callahan	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210892		

BW424
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211129**

Districtnu:	1	Apinumber:	03715770
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Jameson Petroleum Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211129		

Map ID
Direction
Distance

Database EDR ID Number

BW425
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211119**

Districtnu:	1	Apinumber:	03715760
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wilshire-Crawford	Wellnumber:	1-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211119		

BZ426
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000190645**

Districtnu:	1	Apinumber:	03709073
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	155.141	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	405-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000190645		

BY427
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210994**

Districtnu:	1	Apinumber:	03715581
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	18

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210994		

BX428
ESE **OIL_GAS** **CAOG11000192456**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715816
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	145.785	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	370-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192456		

BS429
SSE **OIL_GAS** **CAOG11000211308**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715975
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jalk	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211308		

CA430
East **OIL_GAS** **CAOG11000210398**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714751
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	412-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210398		

BO431
SSE **OIL_GAS** **CAOG11000210890**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715452
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Globe Petroleum Corp.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210890		

BW432
SE **OIL_GAS** **CAOG11000211127**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715768
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	A. L. Jameson	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211127		

Map ID
Direction
Distance

Database EDR ID Number

BW433
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211667**

Districtnu:	1	Apinumber:	03716401
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	345-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211667		

BW435
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211099**

Districtnu:	1	Apinumber:	03715727
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	W-335-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000211099		

BW434
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211098**

Districtnu:	1	Apinumber:	03715727
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	W-335-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000211098		

BO436
SSE **OIL_GAS** **CAOG11000211137**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715778
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	C. C. Julian	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211137		

BX437
SE **OIL_GAS** **CAOG11000210437**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714819
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Wilber J. Cox	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wardman	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210437		

BS438
SSE **OIL_GAS** **CAOG11000192350**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715488
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	136.137	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Jalk	Wellnumber:	113
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192350		

BX439
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210419**

Districtnu:	1	Apinumber:	03714798
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	C. B. Callahan	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210419		

BW440
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210413**

Districtnu:	1	Apinumber:	03714789
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Block Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210413		

Map ID
Direction
Distance

Database EDR ID Number

BY441
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211016**

Districtnu:	1	Apinumber:	03715601
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	38
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211016		

BW442
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211069**

Districtnu:	1	Apinumber:	03715672
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	89-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211069		

BW443
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210377**

Districtnu:	1	Apinumber:	03714728
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Blanchard	Wellnumber:	4

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210377		

BW444
SE **OIL_GAS** **CAOG11000194174**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03723358
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	140.005	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-335-CR
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000194174		

445
SSW **OIL_GAS** **CAOG11000211400**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716089
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Russell Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211400		

BY446
ESE **OIL_GAS** **CAOG11000210988**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715575
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210988		

BQ447
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211019**

Districtnu:	1	Apinumber:	03715604
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander-Bell	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211019		

BW449
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000190602**

Districtnu:	1	Apinumber:	03709012
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	139.924	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	344-H
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000190602		

Map ID
Direction
Distance

Database EDR ID Number

BW448
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000190601**

Districtnu:	1	Apinumber:	03709012
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	139.924	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	344-H
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000190601		

BX450
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211522**

Districtnu:	1	Apinumber:	03716216
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weaver	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211522		

BW451
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210871**

Districtnu:	1	Apinumber:	03715433
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S.F.S.	Wellnumber:	6

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210871		

BY452
ESE **OIL_GAS** **CAOG11000210977**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715565
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210977		

BW453
SE **OIL_GAS** **CAOG11000211116**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715757
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wilshire-Buckbee	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211116		

BS454
SSE **OIL_GAS** **CAOG11000211309**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715976
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jalk	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211309		

BR455
SSW **OIL_GAS** **CAOG11000211639**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716373
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Carter	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211639		

BX456
SE **OIL_GAS** **CAOG11000210430**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714811
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Commander Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Rohde	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210430		

Map ID
Direction
Distance

Database EDR ID Number

BX457
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211409**

Districtnu:	1	Apinumber:	03716098
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Scotch Oil Co., Ltd.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Scotch Oil Co.	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211409		

BZ458
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210400**

Districtnu:	1	Apinumber:	03714757
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	404-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210400		

BW459
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211067**

Districtnu:	1	Apinumber:	03715670
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	89

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211067		

CB460
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000206888**

Districtnu:	1	Apinumber:	03709027
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	W. J. Barnhart	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Globe	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206888		

BU461
East
1/2 - 1 Mile

OIL_GAS **CAOG11000188588**

Districtnu:	1	Apinumber:	03700102
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.65	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	429-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000188588		

BW462
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211130**

Districtnu:	1	Apinumber:	03715771
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Jameson Petroleum Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211130		

BY463
ESE **OIL_GAS** **CAOG11000192507**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716152
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	143.581	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	267-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192507		

CC464
South **OIL_GAS** **CAOG11000210951**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715539
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Fraser	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210951		

Map ID
Direction
Distance

Database EDR ID Number

CB465
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211632**

Districtnu:	1	Apinumber:	03716366
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	J. A. Smith	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Italo-Brunson	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211632		

BW466
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211117**

Districtnu:	1	Apinumber:	03715758
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wilshire-Buckbee	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211117		

CB467
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211311**

Districtnu:	1	Apinumber:	03715978
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jalk	Wellnumber:	114

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211311		

BX468
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192500**

Districtnu:	1	Apinumber:	03716063
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	150.549	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-355-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192500		

BX469
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192501**

Districtnu:	1	Apinumber:	03716063
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	150.549	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-355-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192501		

CD470
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211038**

Districtnu:	1	Apinumber:	03715623
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander-Bell	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211038		

BW471
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000206873**

Districtnu:	1	Apinumber:	03709011
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Atlantic Richfield Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wardman	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206873		

472
SW
1/2 - 1 Mile

OIL_GAS **CAOG11000211256**

Districtnu:	1	Apinumber:	03715915
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Watson	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211256		

Map ID
Direction
Distance

Database EDR ID Number

BY473
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211018**

Districtnu:	1	Apinumber:	03715603
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Alexander-Bell	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211018		

BX474
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210436**

Districtnu:	1	Apinumber:	03714818
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Wilber J. Cox	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wardman	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210436		

CE475
SSW
1/2 - 1 Mile

OIL_GAS **CAOG11000211399**

Districtnu:	1	Apinumber:	03716088
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Russell Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	3

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211399		

CB476
SSE **OIL_GAS** **CAOG11000211280**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715939
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Crown Central Petroleum Corp.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211280		

BY477
ESE **OIL_GAS** **CAOG11000200676**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03700098
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	455-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200676		

CC478
SSW **OIL_GAS** **CAOG11000210948**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715536
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Fraser	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210948		

BY479
ESE **OIL_GAS** **CAOG11000211288**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715950
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Foix	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211288		

CF480
SSE **OIL_GAS** **CAOG11000192352**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715490
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	134.273	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Jalk	Wellnumber:	117
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192352		

Map ID
Direction
Distance

Database EDR ID Number

BU481
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192104**

Districtnu:	1	Apinumber:	03714752
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.801	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	418-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192104		

BX482
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210439**

Districtnu:	1	Apinumber:	03714821
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Wilber J. Cox	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wardman	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210439		

483
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210406**

Districtnu:	1	Apinumber:	03714775
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Bell Petroleum Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell-Union	Wellnumber:	112

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000210406		

CA484
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192119**

Districtnu:	1	Apinumber:	03714765
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	153.599	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	417-L
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	4268	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192119		

CG485
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211518**

Districtnu:	1	Apinumber:	03716212
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Comstock Housing, Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weaver	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211518		

BX486
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211147**

Districtnu:	1	Apinumber:	03715788
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	McVicar-Rood	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wilshire-Peterson	Wellnumber:	2-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211147		

BX487
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211402**

Districtnu:	1	Apinumber:	03716091
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Ryan Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Woodward	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211402		

CH488
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211310**

Districtnu:	1	Apinumber:	03715977
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jalk	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211310		

Map ID
Direction
Distance

Database EDR ID Number

489
NNE
1/2 - 1 Mile

OIL_GAS **CAOG11000204657**

Districtnu:	1	Apinumber:	03705412
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	Fullerton Oil Co.	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000204657		

BX490
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211145**

Districtnu:	1	Apinumber:	03715786
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	McVicar-Rood	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wilshire-Peterson	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211145		

CD491
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190643**

Districtnu:	1	Apinumber:	03709072
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	154.229	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	435-L

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	4196	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190643		

CD492
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190644**

Districtnu:	1	Apinumber:	03709072
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	154.229	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	435-L
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	4196
Abandonedd:	Not Reported	Completion:	02-DEC-09
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190644		

CD493
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000297824**

Districtnu:	1	Apinumber:	03730110
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03N
Range:	11W	Basemeridi:	SB
Elevation:	KB 174		
Locationde:	Well is 666.1’ south aong section line and 1,136.6’ west at right angles to said line from the northeast corner of Sec. 6-3S-11W		
Gissourcec:	noi	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	W400-11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000297824		

Map ID
Direction
Distance

Database EDR ID Number

CD494
ESE **OIL_GAS** **CAOG11000297825**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03730110
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03N
Range:	11W	Basemeridi:	SB
Elevation:	KB 174		
Locationde:	Well is 666.1' south aong section line and 1,136.6' west at right angles to said line from the northeast corner of Sec. 6-3S-11W		
Gissourcec:	noi	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	W400-11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000297825		

BW496
SE **OIL_GAS** **CAOG11000192425**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715728
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	140.291	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	334-G
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192425		

BW495
SE **OIL_GAS** **CAOG11000192424**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715728
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	140.291	Locationde:	Not Reported

Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	334-G
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192424		

BX497
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211521**

Districtnu:	1	Apinumber:	03716215
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weaver	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211521		

BX498
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211401**

Districtnu:	1	Apinumber:	03716090
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Ryan Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211401		

Map ID
Direction
Distance

Database EDR ID Number

CD499
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000296952**

Districtnu:	1	Apinumber:	03730060
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	180		
Locationde:	Well is 756.1' south along section property line and 1136.1 west at right angles to said line from the northeast corner of section 6-3S-11W.		
Gissourcec:	sum		
Comments:	Well is directionally drilled show proposed coordinates from surface location and true vertical depth at total depth: 289' north and 655' west. Estimated true vertical depth 5493'. KB 21'.		
Leasename:	Not Reported	Wellnumber:	290
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	13-SEP-13
Welldeptha:	8383	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	29-SEP-13
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000296952		

BY500
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211463**

Districtnu:	1	Apinumber:	03716154
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Foix	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211463		

CI501
East
1/2 - 1 Mile

OIL_GAS **CAOG11000297826**

Districtnu:	1	Apinumber:	03730111
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S

Range:	11W	Basemeridi:	SB
Elevation:	KB175		
Locationde:	Well is 177.8’ south along section line and 1047.1’ west at right angles to said line from the northeast corner of Sec. 6-3S-11W		
Gissourcec:	noi		
Comments:	Well is directionally drilled, show proposed coordinates from surface location and true vertical depth at total depth: 131’ north and 703’ west. Estimated true vertical depth 5545’.		
Leasename:	Not Reported	Wellnumber:	285
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	NOG
Site id:	CAOG11000297826		

CG502
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192512**

Districtnu:	1	Apinumber:	03716221
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	142.976	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	360-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192512		

CI503
East
1/2 - 1 Mile

OIL_GAS **CAOG11000296979**

Districtnu:	1	Apinumber:	03730063
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 173		
Locationde:	Well is 208.2 ’ south along section property line 1047.2’ west at right angles to said line from the norhteast corner of section property 6-3S-11W.		
Gissourcec:	noi		
Comments:	Well is directionally drilled show proposed coordinates from surface location and true vertical depth at total depth: 22’ north and 411’ west. Estimated true vertical depth 5695’.		
Leasename:	Not Reported	Wellnumber:	293
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported

Directiona:	Unknown	Gissymbol:	NOG
Site id:	CAOG11000296979		

CD504
ESE **OIL_GAS** **CAOG11000296975**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03730061
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 173		
Locationde:	Well is 797.1' south along section property line and 1136 west at right angles to said line from the northeast corner of section 6-3S-11W. KB 21'		
Gissourcec:	sum		
Comments:	well is directionally drilled show proposed corrdinates from surface location and true vertical depth at total depth: 188' north and 882' west. Estimated ture vertical depth 5724'.		
Leasename:	Not Reported	Wellnumber:	291
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	22-OCT-13
Welldeptha:	8516	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	07-NOV-13
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000296975		

BX505
SE **OIL_GAS** **CAOG11000211377**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716062
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Harry S. Rothschild	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wardman	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211377		

BX506
SE **OIL_GAS** **CAOG11000211146**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715787
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	McVicar-Rood	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wilshire-Peterson	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211146		

BX507
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210905**

Districtnu:	1	Apinumber:	03715474
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	346-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210905		

CA508
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190611**

Districtnu:	1	Apinumber:	03709038
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	143.189	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-411-D
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190611		

Map ID
Direction
Distance

Database EDR ID Number

CA509
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190612**

Districtnu:	1	Apinumber:	03709038
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	143.189	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-411-D
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190612		

CD510
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000298782**

Districtnu:	1	Apinumber:	03730144
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 173		
Locationde:	Well 981.3’ south along section line and 1110.6’ west at right angles to said line from the northewast corner of section 6-3S-11W.		
Gissourcec:	noi	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	295
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	09-JAN-14
Welldeptha:	8512	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	24-JAN-14
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000298782		

CB511
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211649**

Districtnu:	1	Apinumber:	03716383
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported

Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211649		

CB512
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211644**

Districtnu:	1	Apinumber:	03716378
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211644		

CD513
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000194366**

Districtnu:	1	Apinumber:	03723600
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	153.278	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	497-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000194366		

Map ID
Direction
Distance

Database EDR ID Number

CI514
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190619**

Districtnu:	1	Apinumber:	03709045
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.066	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	425-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	3700	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190619		

CD515
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000296983**

Districtnu:	1	Apinumber:	03730066
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 174		
Locationde:	Well is 771.4' south along section line and 111.1' west at right angles to said line from the northeast corner of section 6-3S-11W		
Gissourcec:	noi		
Comments:	well is directionally drilled show proposed coordinates from surface location and true vertical depth at total depth: 145' north and 333' west. Estimated true vertical dpeth 8094'.		
Leasename:	Not Reported	Wellnumber:	200-01
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	NOG
Site id:	CAOG11000296983		

CI516
East
1/2 - 1 Mile

OIL_GAS **CAOG11000296950**

Districtnu:	1	Apinumber:	03730058
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S

Range:	11W	Basemeridi:	SB
Elevation:	KB 175		
Locationde:	Well is 192.7' south along section property line and 1022' west at right angles to said line from the northeast corner of section 6-3S-11W.		
Gissourcec:	noi		
Comments:	Well is directionally drilled show proposed coordinates from surface location and true vertical depth at total depth 26' north and 975' west. Estimated true vertical depth 7196'.		
Leasename:	Not Reported	Wellnumber:	284
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	12-DEC-13
Welldeptha:	8455	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	24-DEC-13
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000296950		

CD517
ESE **OIL_GAS** **CAOG11000296951**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03730059
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	153		
Locationde:	Well is 801.4' south along section property line and 1110.9 west at right angles to said line from the northeast corner of section 6-3S-11W. KB 21', Elev. of ground above SL 153'.		
Gissourcec:	sum		
Comments:	Well is directionally drilled show proposed coordinates from surface location and true vertical depth at total depth 287' nothe and 915' west. Estimated ture vertical depth 7114'. KB 21'.		
Leasename:	Not Reported	Wellnumber:	289
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	01-OCT-13
Welldeptha:	8446	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	19-OCT-13
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000296951		

CD518
ESE **OIL_GAS** **CAOG11000296981**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03730065
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 172		
Locationde:	Well is 906' south along section property line 1,135.8' west at right angles to said line from the norhteast corner of section property 6-3S-11W.		
Gissourcec:	noi		
Comments:	Well is directionally drilled show proposed coordinates from surface location and true vertical depth at total depth: 91.97' north and 1,137.93' west. Estimated true vertical depth 5913'.		
Leasename:	Not Reported	Wellnumber:	298

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	NOG
Site id:	CAOG11000296981		

CJ519
SE **OIL_GAS** **CAOG11000211390**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716077
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Rothschild Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hill	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211390		

CJ520
SE **OIL_GAS** **CAOG11000211068**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715671
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	89-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211068		

CD521
ESE **OIL_GAS** **CAOG11000296980**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03730064
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	172'		
Locationde:	Well is 936.1' south along section property line1135.6' west at right angles to said line from the norhteast corner of section property 6-3S-11W. KB21'		
Gissourcec:	sum		
Comments:	Well is directionally drilled show proposed coordinates from surface location and true vertical depth at total depth: 35' north and 614' west. Estimated true vertical depth 5523'. KB 21		
Leasename:	Not Reported	Wellnumber:	294
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	27-NOV-13
Welldeptha:	8356	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	24-DEC-13
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000296980		

CJ522
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192363**

Districtnu:	1	Apinumber:	03715509
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	139.301	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	343-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192363		

BX523
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211874**

Districtnu:	1	Apinumber:	03716741
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	A. Wardman	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wardman	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG

Site id: CAOG11000211874

CI524
East **OIL_GAS** **CAOG11000188589**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03700103
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	157.135	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	428-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000188589		

CD525
ESE **OIL_GAS** **CAOG11000296978**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03730062
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 172		
Locationde:	Well is 966.1 ' south along section property line 1135.6' west at right angles to said line from the norhteast corner of section property 6-3S-11W. KB21', Elev. GL 151'.		
Gissourcec:	sum		
Comments:	Well is directionally drilled show proposed coordinates from surface location and true vertical depth at total depth: 187' south and 269' west. Estimated true vertical depth 5523'.		
Leasename:	Not Reported	Wellnumber:	292
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	26-JAN-14
Welldeptha:	9063	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	12-FEB-14
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000296978		

CG526
ESE **OIL_GAS** **CAOG11000211525**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716219
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles

Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weaver	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211525		

CA527
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192106**

Districtnu:	1	Apinumber:	03714754
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	155.335	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-413-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192106		

CA528
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192107**

Districtnu:	1	Apinumber:	03714754
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	155.335	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-413-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192107		

Map ID
Direction
Distance

Database EDR ID Number

CD529
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000296984**

Districtnu:	1	Apinumber:	03730067
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 173		
Locationde:	Well is 921.6' south along section line and 1110.9' west at right angles to said line from the Northeast corner of section 6-3S-11W		
Gissourcec:	noi		
Comments:	WEll is dirctionally drilled show proposed coordinates from surface location and ture vertical depth at total depth: 149' north and 825' west. Estimated true vertical depth 8093'.		
Leasename:	Not Reported	Wellnumber:	200-02
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	09-NOV-13
Welldeptha:	8425	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	24-DEC-13
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000296984		

CG530
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211464**

Districtnu:	1	Apinumber:	03716155
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Foix	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000211464		

CG531
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000206886**

Districtnu:	1	Apinumber:	03709025
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Barnhart-Morrow Consolidated	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S

Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Springs	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206886		

CD532
ESE **OIL_GAS** **CAOG11000296935**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03730057
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 172		
Locationde:	Well is 951.4' south along section property line and 1,110.7' west at right angles to said line from the northeast corner of section 6-3S-11W.		
Gissourcec:	noi		
Comments:	Well is to be directionally drilled show proposed coordinates from surface location and true vertical depth at total depth: 63.28' north and 325.82' west. Estimated true vertical depth 8273'.		
Leasename:	Not Reported	Wellnumber:	283
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	27-DEC-13
Welldeptha:	8315	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	07-JAN-14
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000296935		

CD533
ESE **OIL_GAS** **CAOG11000294830**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03729986
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	193' KB		
Locationde:	Location of well 1,086.4' South along section 1,146.2' West at right angles to said line from the Northeast corner of section 6-3S-11W.		
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	400-09
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	27-JAN-13
Welldeptha:	6561	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000294830		

Map ID
Direction
Distance

Database EDR ID Number

CJ534
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211300**

Districtnu:	1	Apinumber:	03715962
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hill	Wellnumber:	187B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211300		

CB535
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000192348**

Districtnu:	1	Apinumber:	03715486
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	148.643	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607139.ssf
Leasename:	Jalk	Wellnumber:	111
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192348		

CD536
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192118**

Districtnu:	1	Apinumber:	03714764
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	155.154	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	438-D

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192118		

CC537
SSW **OIL_GAS** **CAOG11000211705**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716447
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Reid & Campbell	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000211705		

CD538
ESE **OIL_GAS** **CAOG11000190634**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709063
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	152.213	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	439-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190634		

CJ539
SE **OIL_GAS** **CAOG11000211391**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716078
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Rothschild Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hill	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211391		

CD540
ESE **OIL_GAS** **CAOG11000242541**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03727348
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 172.5		
Locationde:	1.111.3' South along section line & 1.137' West @ right angle to said line from the Northest corner of section 6-T3S-R11W.		
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	400-04
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	07-APR-12
Welldeptha:	8154	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000242541		

CD541
ESE **OIL_GAS** **CAOG11000216892**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03727225
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	169' KB	Locationde:	Fr NE cor sec 1142W & 1135S
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	400-03
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	09-AUG-11
Welldeptha:	5022	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000216892		

Map ID
Direction
Distance

Database EDR ID Number

BZ542
East **OIL_GAS** **CAOG11000190628**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709055
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	165.538	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	406-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000190628		

CJ543
SE **OIL_GAS** **CAOG11000210423**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714804
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Century Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bachmann	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210423		

CK544
ESE **OIL_GAS** **CAOG11000200674**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03700095
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	478-N

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200674		

CI545
East
1/2 - 1 Mile

OIL_GAS **CAOG11000206892**

Districtnu:	1	Apinumber:	03709031
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206892		

CI546
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190632**

Districtnu:	1	Apinumber:	03709058
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	155.945	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	426-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190632		

547
WNW
1/2 - 1 Mile

OIL_GAS **CAOG11000211422**

Districtnu:	1	Apinumber:	03716111
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	L.W. Houghton	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211422		

CK548
ESE **OIL_GAS** **CAOG11000211286**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715948
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Foix	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211286		

CI549
East **OIL_GAS** **CAOG11000190636**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709066
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	161.586	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	427-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	1454	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190636		

Map ID
Direction
Distance

Database EDR ID Number

CD550
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000190615**

Districtnu:	1	Apinumber:	03709042
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	158.538	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	446-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190615		

CD551
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000206891**

Districtnu:	1	Apinumber:	03709030
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	461-M
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206891		

CI552
East
1/2 - 1 Mile

OIL_GAS **CAOG11000243586**

Districtnu:	1	Apinumber:	03727380
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	175'KB	Locationde:	Fr NE cor sec 406S & 942W
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	400-07

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	28-JUL-12
Welldeptha:	5158	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000243586		

CI553
East
1/2 - 1 Mile

OIL_GAS **CAOG11000243587**

Districtnu:	1	Apinumber:	03727381
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	175 KB	Locationde:	Fr NE cor sec 431S & 942W
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	400-06
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	15-JUL-12
Welldeptha:	5148	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000243587		

CK554
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000190624**

Districtnu:	1	Apinumber:	03709051
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	144.288	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-463-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190624		

CK555
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000190625**

Districtnu:	1	Apinumber:	03709051
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	144.288	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-463-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190625		

CJ556
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211298**

Districtnu:	1	Apinumber:	03715960
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hill	Wellnumber:	87
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211298		

CJ557
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192469**

Districtnu:	1	Apinumber:	03715963
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	144.539	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-342-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192469		

Map ID
Direction
Distance

Database EDR ID Number

CJ558
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192470**

Districtnu:	1	Apinumber:	03715963
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	144.539	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-342-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192470		

CL559
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000204562**

Districtnu:	1	Apinumber:	03705272
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	Central Oil Co. of L.A.	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Los Nietos	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000204562		

CG560
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000206885**

Districtnu:	1	Apinumber:	03709024
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Barnhart-Morrow Consolidated	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Springs	Wellnumber:	3

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206885		

CJ561
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210427**

Districtnu:	1	Apinumber:	03714808
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Century Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bachmann	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210427		

CG562
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211520**

Districtnu:	1	Apinumber:	03716214
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weaver	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211520		

CD563
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000206893**

Districtnu:	1	Apinumber:	03709039
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	462-D
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206893		

CD565
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190610**

Districtnu:	1	Apinumber:	03709037
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.662	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-437-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190610		

CD564
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190609**

Districtnu:	1	Apinumber:	03709037
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.662	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-437-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190609		

Map ID
Direction
Distance

Database EDR ID Number

CG566
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211873**

Districtnu:	1	Apinumber:	03716740
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	A. Wardman	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wardman	Wellnumber:	1-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211873		

CJ567
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211299**

Districtnu:	1	Apinumber:	03715961
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Hill	Wellnumber:	87-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211299		

CD568
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000190635**

Districtnu:	1	Apinumber:	03709065
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	147.183	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	456-F

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190635		

CK569
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211466**

Districtnu:	1	Apinumber:	03716157
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Foix	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211466		

CD570
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211035**

Districtnu:	1	Apinumber:	03715620
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	18
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211035		

CF571
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000192351**

Districtnu:	1	Apinumber:	03715489
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	138.209	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Jalk	Wellnumber:	116
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192351		

CJ572
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210424**

Districtnu:	1	Apinumber:	03714805
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Century Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bachmann	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210424		

CG573
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211397**

Districtnu:	1	Apinumber:	03716086
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Rothschild Oil Co. & Josephine E. Kebow		
Countyname:	Los Angeles	Fieldname:	Santa Fe Springs
Areaname:	Any Area	Section:	6
Township:	03S	Range:	11W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Not Reported	Leasename:	Wardman
Wellnumber:	2	Epawell:	N
Hydraulica:	N	Confidenti:	N
Spuddate:	Not Reported	Welldeptha:	0
Redrillfoo:	0	Abandonedd:	Not Reported
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	POG	Site id:	CAOG11000211397

Map ID
Direction
Distance

Database EDR ID Number

CE574
SSW
1/2 - 1 Mile

OIL_GAS **CAOG11000210891**

Districtnu:	1	Apinumber:	03715453
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Globe Petroleum Corp.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	De L'eau	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210891		

CM576
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210403**

Districtnu:	1	Apinumber:	03714763
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	W-400-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210403		

CM575
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210402**

Districtnu:	1	Apinumber:	03714763
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	W-400-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210402		

CJ577
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192578**

Districtnu:	1	Apinumber:	03716442
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Comm. Dev. Commission	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151.391	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Ridge Hill	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192578		

CJ579
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192427**

Districtnu:	1	Apinumber:	03715732
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	146.519	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-333-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192427		

CJ578
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192428**

Districtnu:	1	Apinumber:	03715732
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	146.519	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-333-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192428		

CJ581
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192429**

Districtnu:	1	Apinumber:	03715732
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	146.519	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-333-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192429		

CJ580
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192430**

Districtnu:	1	Apinumber:	03715732
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	146.519	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-333-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192430		

Map ID
Direction
Distance

Database EDR ID Number

CN582
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211650**

Districtnu:	1	Apinumber:	03716384
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211650		

CG583
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211524**

Districtnu:	1	Apinumber:	03716218
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weaver	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211524		

CK584
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211462**

Districtnu:	1	Apinumber:	03716153
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Foix	Wellnumber:	6

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211462		

CG585
ESE **OIL_GAS** **CAOG11000192511**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716220
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	148.259	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	364-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192511		

CH586
SSE **OIL_GAS** **CAOG11000211307**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715974
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jalk	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211307		

CK587
ESE **OIL_GAS** **CAOG11000243303**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03727367
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 172.0		
Locationde:	Location of the well 1200.0' South along section line and 1032.1' West at right angles to said line from the Northeast corner of section 6-3S-11W		
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	281
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	5309	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	24-MAY-12
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000243303		

CO588
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000206887**

Districtnu:	1	Apinumber:	03709026
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Barnhart-Morrow Consolidated	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Pulliam	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206887		

CD589
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000200675**

Districtnu:	1	Apinumber:	03700096
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	39
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200675		

Map ID
Direction
Distance

Database EDR ID Number

CG590
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211396**

Districtnu:	1	Apinumber:	03716085
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	347-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211396		

CJ591
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211070**

Districtnu:	1	Apinumber:	03715673
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	90
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211070		

CJ592
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211684**

Districtnu:	1	Apinumber:	03716417
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Morton & Elder	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wardman	Wellnumber:	1

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211684		

CG593
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000206861**

Districtnu:	1	Apinumber:	03708999
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	E. K. Allison Syndicate	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206861		

CJ594
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210415**

Districtnu:	1	Apinumber:	03714791
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Jack Brown	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	White Star	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210415		

CN595
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211645**

Districtnu:	1	Apinumber:	03716379
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211645		

CK596
ESE **OIL_GAS** **CAOG11000217139**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03727074
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	172 KB	Locationde:	Fr NE cor sec 6 1202S & 1007E.
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	377
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	29-OCT-12
Welldeptha:	5413	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	26-NOV-13
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000217139		

CG597
ESE **OIL_GAS** **CAOG11000210893**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715455
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Graham-Loftus Oil Corp.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000210893		

Map ID
Direction
Distance

Database EDR ID Number

CK598
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000206897**

Districtnu:	1	Apinumber:	03709059
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	464-D
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206897		

CK599
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000297822**

Districtnu:	1	Apinumber:	03730109
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	GL 151’		
Locationde:	Well is 1227.8’ south along section line and 994.4’ west at right angles to said line from the northeast conerof section 6-2S-11W.		
Gissourcec:	noi	Comments:	KB 21’ above GL.
Leasename:	Not Reported	Wellnumber:	W-378-M
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	28-JUL-13
Welldeptha:	7452	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AWF
Site id:	CAOG11000297822		

CK600
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000297823**

Districtnu:	1	Apinumber:	03730109
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	GL 151’		

Locationde:	Well is 1227.8' south along section line and 994.4' west at right angles to said line from the northeast conerof section 6-2S-11W.		
Gissourcec:	noi	Comments:	KB 21' above GL.
Leasename:	Not Reported	Wellnumber:	W-378-M
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	28-JUL-13
Welldeptha:	7452	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AWF
Site id:	CAOG11000297823		

CG601
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211686**

Districtnu:	1	Apinumber:	03716419
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	L. T. Oglesby	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211686		

CJ602
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211100**

Districtnu:	1	Apinumber:	03715730
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	190-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211100		

Map ID
Direction
Distance

Database EDR ID Number

CO603
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211168**

Districtnu:	1	Apinumber:	03715823
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	E.G.B.	Wellnumber:	101-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211168		

CO604
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192505**

Districtnu:	1	Apinumber:	03716079
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	146.499	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	340-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192505		

CG605
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211519**

Districtnu:	1	Apinumber:	03716213
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	361-A

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211519		

CP606
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192130**

Districtnu:	1	Apinumber:	03714778
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	169.572	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	410-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192130		

CP607
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192131**

Districtnu:	1	Apinumber:	03714778
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	169.572	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	410-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192131		

CQ608
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211651**

Districtnu:	1	Apinumber:	03716385
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211651		

CK609
ESE **OIL_GAS** **CAOG11000297827**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03730112
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151		
Locationde:	Well is 1230.0' south along section line and 964.4' west at right angles to said line from the northeast corner of Sec. 6-3S-11W		
Gissourcec:	sum		
Comments:	Well is directionally drilled, show proposed coordinates from surface location and true vertical depth at total depth: 368' south and 442' west. Estimated true vertical depth 8172'. KB 21'.		
Leasename:	Not Reported	Wellnumber:	379
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	13-AUG-13
Welldeptha:	8264	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	11-SEP-13
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000297827		

CK610
ESE **OIL_GAS** **CAOG11000211386**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716072
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	373-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG

Site id: CAOG11000211386

CK611
ESE **OIL_GAS** **CAOG11000211387**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716072
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	373-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211387		

CO612
SE **OIL_GAS** **CAOG11000211148**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715791
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211148		

CP613
East **OIL_GAS** **CAOG11000190639**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709069
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	153.379	Locationde:	Not Reported

Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	414-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190639		

CJ614
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192510**

Districtnu:	1	Apinumber:	03716210
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	139.861	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	326-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192510		

CJ615
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210425**

Districtnu:	1	Apinumber:	03714806
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Century Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bachmann	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210425		

Map ID
Direction
Distance

Database EDR ID Number

CJ616
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192426**

Districtnu:	1	Apinumber:	03715729
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	140.456	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	327-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192426		

CO617
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211572**

Districtnu:	1	Apinumber:	03716291
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	86-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211572		

CR620
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000192110**

Districtnu:	1	Apinumber:	03714756
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	160.155	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-403-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192110		

CR618
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000192108**

Districtnu:	1	Apinumber:	03714756
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	160.155	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-403-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192108		

CR619
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000192109**

Districtnu:	1	Apinumber:	03714756
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	160.155	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-403-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192109		

CO621
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210441**

Districtnu:	1	Apinumber:	03714823
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Crown Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Beaver	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210441		

CS622
SSE **OIL_GAS** **CAOG11000210914**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715494
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pyramid Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jalk	Wellnumber:	121
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210914		

CT623
ESE **OIL_GAS** **CAOG11000211523**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716217
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Weaver	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211523		

Map ID
Direction
Distance

Database EDR ID Number

CU624
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192135**

Districtnu:	1	Apinumber:	03714783
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	148.433	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-465-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192135		

CU625
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192136**

Districtnu:	1	Apinumber:	03714783
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	148.433	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-465-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192136		

CJ626
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211072**

Districtnu:	1	Apinumber:	03715675
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	90-B

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211072		

CI627
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190646**

Districtnu:	1	Apinumber:	03709074
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	150.811	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-423-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190646		

CI628
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190647**

Districtnu:	1	Apinumber:	03709074
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	150.811	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-423-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190647		

CO629
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210915**

Districtnu:	1	Apinumber:	03715495
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	336-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210915		

CJ630
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210426**

Districtnu:	1	Apinumber:	03714807
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Century Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bachmann	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210426		

CK631
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210974**

Districtnu:	1	Apinumber:	03715562
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Twin Bell Oil Syndicate	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Grohs	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210974		

Map ID
Direction
Distance

Database EDR ID Number

CV632
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190642**

Districtnu:	1	Apinumber:	03709071
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151.924	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	440-L
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190642		

CU633
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192134**

Districtnu:	1	Apinumber:	03714782
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	149.814	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	474-N
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192134		

CO634
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192563**

Districtnu:	1	Apinumber:	03716316
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	144.744	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	348-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192563		

CV636
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000190638**

Districtnu:	1	Apinumber:	03709068
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151.654	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-445-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190638		

CV635
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000190637**

Districtnu:	1	Apinumber:	03709068
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151.654	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-445-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190637		

CK637
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000206899**

Districtnu:	1	Apinumber:	03709061
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	479-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206899		

CP638
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190648**

Districtnu:	1	Apinumber:	03709075
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	163.544	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	407-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000190648		

CK639
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000206890**

Districtnu:	1	Apinumber:	03709029
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206890		

Map ID
Direction
Distance

Database EDR ID Number

CW640
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000192347**

Districtnu:	1	Apinumber:	03715485
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	136.417	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Jalk	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192347		

CL641
NNE
1/2 - 1 Mile

OIL_GAS **CAOG11000204903**

Districtnu:	1	Apinumber:	03705760
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	Petroleum Midway Co. Ltd.	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000204903		

CV642
East
1/2 - 1 Mile

OIL_GAS **CAOG11000194367**

Districtnu:	1	Apinumber:	03723601
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.441	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	498-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000194367		

CK643
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000200673**

Districtnu:	1	Apinumber:	03700093
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	489-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200673		

CN644
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211515**

Districtnu:	1	Apinumber:	03716208
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Steinly	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211515		

CO645
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211133**

Districtnu:	1	Apinumber:	03715774
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Jameson Petroleum Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211133		

CO646
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211132**

Districtnu:	1	Apinumber:	03715773
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Jameson Petroleum Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211132		

CP647
East
1/2 - 1 Mile

OIL_GAS **CAOG11000194250**

Districtnu:	1	Apinumber:	03723455
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	153.652	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	496-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000194250		

Map ID
Direction
Distance

Database EDR ID Number

CO648
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211701**

Districtnu:	1	Apinumber:	03716440
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	349-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211701		

CO649
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210909**

Districtnu:	1	Apinumber:	03715481
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pyramid Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Industrial	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210909		

CO650
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000206871**

Districtnu:	1	Apinumber:	03709009
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Atlantic Richfield Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	G.P.	Wellnumber:	1

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206871		

CO651
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211131**

Districtnu:	1	Apinumber:	03715772
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Jameson Petroleum Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211131		

CK652
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000190627**

Districtnu:	1	Apinumber:	03709054
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	149.652	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	492-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190627		

CK653
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192504**

Districtnu:	1	Apinumber:	03716075
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151.8	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	363-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192504		

CW654
SSE **OIL_GAS** **CAOG11000192353**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715491
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	136.631	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Jalk	Wellnumber:	118
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192353		

CX655
SSW **OIL_GAS** **CAOG11000210467**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714850
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Fred B. Foster & Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	61
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000210467		

Map ID
Direction
Distance

Database EDR ID Number

CQ656
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211643**

Districtnu:	1	Apinumber:	03716377
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	1-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211643		

CO657
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192577**

Districtnu:	1	Apinumber:	03716441
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	141.622	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	339-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192577		

CU658
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211034**

Districtnu:	1	Apinumber:	03715619
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	17

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211034		

CO659
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211634**

Districtnu:	1	Apinumber:	03716368
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	J. A. Smith	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jameson-Petroleum	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211634		

CQ660
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211642**

Districtnu:	1	Apinumber:	03716376
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211642		

CO661
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211071**

Districtnu:	1	Apinumber:	03715674
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	90-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211071		

CO662
ESE **OIL_GAS** **CAOG11000211128**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715769
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Jameson Petroleum Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211128		

CU663
ESE **OIL_GAS** **CAOG11000192129**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714774
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	147.244	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	457-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192129		

Map ID
Direction
Distance

Database EDR ID Number

CK664
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210411**

Districtnu:	1	Apinumber:	03714786
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	491-S
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210411		

CT665
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192560**

Districtnu:	1	Apinumber:	03716311
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	149.322	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-353-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192560		

CT666
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192561**

Districtnu:	1	Apinumber:	03716311
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	149.322	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-353-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192561		

CN667
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211647**

Districtnu:	1	Apinumber:	03716381
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211647		

CO668
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211101**

Districtnu:	1	Apinumber:	03715731
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	190-D
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211101		

CY669
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192120**

Districtnu:	1	Apinumber:	03714766
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	153.303	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	422-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192120		

CY670
East
1/2 - 1 Mile

OIL_GAS **CAOG11000194168**

Districtnu:	1	Apinumber:	03723347
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.665	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	494-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000194168		

CV671
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192111**

Districtnu:	1	Apinumber:	03714759
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.642	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	444-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192111		

Map ID
Direction
Distance

Database EDR ID Number

CU673
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192122**

Districtnu:	1	Apinumber:	03714767
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	150.902	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	480-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192122		

CU672
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192121**

Districtnu:	1	Apinumber:	03714767
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	150.902	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	480-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192121		

CT674
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192565**

Districtnu:	1	Apinumber:	03716321
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	146.584	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	350-N

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192565		

CS675
SSE **OIL_GAS** **CAOG11000210913**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715493
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jalk	Wellnumber:	120
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210913		

CN676
SE **OIL_GAS** **CAOG11000211652**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716386
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211652		

CU677
ESE **OIL_GAS** **CAOG11000297828**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03730114
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 172		
Locationde:	Well is 1246.0' south along section line and 723.6' west at right angles to said line from the northeast corner of Sec. 6-3S-11W		
Gissourcec:	noi		
Comments:	Well is directionally drilled, show proposed coordinates from surface location and true vertical depth at total depth: 649' south and 135' east. Estimated true vertical depth 8172'. KB 21'.		
Leasename:	Not Reported	Wellnumber:	591
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	28-AUG-13
Welldeptha:	8268	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	10-SEP-13
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000297828		

CT678
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211388**

Districtnu:	1	Apinumber:	03716074
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Rothschild Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Grohs	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211388		

CO679
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192356**

Districtnu:	1	Apinumber:	03715500
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	143.594	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	328-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG

Site id: CAOG11000192356

CO680
ESE **OIL_GAS** **CAOG11000211591**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716320
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	186H
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211591		

CO681
SE **OIL_GAS** **CAOG11000210886**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715448
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S.F.S.	Wellnumber:	40
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210886		

CO682
ESE **OIL_GAS** **CAOG11000211569**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716288
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported

Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	86
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211569		

CU683
ESE **OIL_GAS** **CAOG11000206895**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709050
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	490-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206895		

684
NW **OIL_GAS** **CAOG11000205045**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03705971
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	W. L. Houghton	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000205045		

Map ID
Direction
Distance

Database EDR ID Number

CU685
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192123**

Districtnu:	1	Apinumber:	03714768
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	150.993	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	459-D
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192123		

CU686
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211036**

Districtnu:	1	Apinumber:	03715621
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	103
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211036		

CZ687
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210872**

Districtnu:	1	Apinumber:	03715434
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S.F.S.	Wellnumber:	8

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210872		

688
NW
1/2 - 1 Mile

OIL_GAS **CAOG11000205044**

Districtnu:	1	Apinumber:	03705970
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Houghton Community	Wellnumber:	1-1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000205044		

CO689
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211593**

Districtnu:	1	Apinumber:	03716325
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	191E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211593		

CV690
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190608**

Districtnu:	1	Apinumber:	03709036
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	154.066	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	434-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190608		

CZ691
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000194262**

Districtnu:	1	Apinumber:	03723471
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	144.211	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-375-G
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000194262		

CZ692
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000194263**

Districtnu:	1	Apinumber:	03723471
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	144.211	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-375-G
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000194263		

Map ID
Direction
Distance

Database EDR ID Number

CO693
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000200684**

Districtnu:	1	Apinumber:	03700123
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Comm. Dev. Commission	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Trust	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200684		

CY694
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190629**

Districtnu:	1	Apinumber:	03709056
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	158.808	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	419-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190629		

CY695
East
1/2 - 1 Mile

OIL_GAS **CAOG11000188586**

Districtnu:	1	Apinumber:	03700099
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.262	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	421-N

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000188586		

CX696
SSW **OIL_GAS** **CAOG11000211136**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715777
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	C. C. Julian	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211136		

CU697
ESE **OIL_GAS** **CAOG11000210399**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714755
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	83
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210399		

DA698
SSW **OIL_GAS** **CAOG11000210464**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714847
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Fisher-Gregg Oil Syndicate	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000210464		

CZ699
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211594**

Districtnu:	1	Apinumber:	03716326
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	329-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211594		

CZ700
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211513**

Districtnu:	1	Apinumber:	03716206
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Steinly	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211513		

Map ID
Direction
Distance

Database EDR ID Number

CZ701
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211516**

Districtnu:	1	Apinumber:	03716209
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Steinly	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211516		

DB702
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210975**

Districtnu:	1	Apinumber:	03715563
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Twin Bell Oil Syndicate	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Grohs	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210975		

CT703
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211571**

Districtnu:	1	Apinumber:	03716290
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	86-B

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211571		

CT704
ESE **OIL_GAS** **CAOG11000192564**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716317
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	142.396	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	338-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192564		

CU705
ESE **OIL_GAS** **CAOG11000279168**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03727444
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 175		
Locationde:	Location of well 1045.2’ South along section line 521.6’ West at right angles to said line from the Northeast corner of Sec. 6-T3-R11W		
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	588
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	01-NOV-12
Welldeptha:	5541	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000279168		

Map ID
Direction
Distance

Database EDR ID Number

CT706
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211587**

Districtnu:	1	Apinumber:	03716314
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	185E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211587		

CT707
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211567**

Districtnu:	1	Apinumber:	03716286
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	85
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211567		

CU708
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192137**

Districtnu:	1	Apinumber:	03714785
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	152.199	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-472-S

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192137		

CU709
ESE **OIL_GAS** **CAOG11000243351**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03727370
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 174.3		
Locationde:	Location of well 1070.5’ South along section line and 519.6’ West at right angles to said line from the Northeast corner of section 6-3S-11W.		
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	652
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	08-JUN-12
Welldeptha:	5274	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000243351		

CX710
SSW **OIL_GAS** **CAOG11000210412**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714788
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Blanton, Gendron & Cook	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	56
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000210412		

Map ID
Direction
Distance

Database EDR ID Number

CT711
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211586**

Districtnu:	1	Apinumber:	03716312
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	352-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211586		

CV712
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210404**

Districtnu:	1	Apinumber:	03714771
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	448-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210404		

DA713
South
1/2 - 1 Mile

OIL_GAS **CAOG11000204893**

Districtnu:	1	Apinumber:	03705747
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Pacific States Oil Co.	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000204893		

CZ714
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211573**

Districtnu:	1	Apinumber:	03716292
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	91
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211573		

CU715
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000279164**

Districtnu:	1	Apinumber:	03727440
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 175		
Locationde:	Location of well 1,045.5’ South along section line and 496.4’ West @ right angles to said line form the Northeast corner of Sec.6-T3S-R11W		
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	584
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	6559	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000279164		

Map ID
Direction
Distance

Database EDR ID Number

DB717
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192503**

Districtnu:	1	Apinumber:	03716073
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	152.721	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-362-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000192503		

DB716
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192502**

Districtnu:	1	Apinumber:	03716073
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	152.721	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-362-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000192502		

CY718
East
1/2 - 1 Mile

OIL_GAS **CAOG11000194169**

Districtnu:	1	Apinumber:	03723348
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	160.674	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	495-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000194169		

CZ719
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192566**

Districtnu:	1	Apinumber:	03716322
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	147.058	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-330-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192566		

CZ720
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192567**

Districtnu:	1	Apinumber:	03716322
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	147.058	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-330-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192567		

DC721
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211514**

Districtnu:	1	Apinumber:	03716207
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	316-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211514		

DD722
SSE **OIL_GAS** **CAOG11000211657**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716391
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	15-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211657		

DE723
East **OIL_GAS** **CAOG11000211023**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715608
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211023		

Map ID
Direction
Distance

Database EDR ID Number

CU724
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000200888**

Districtnu:	1	Apinumber:	03700580
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	22
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200888		

CU725
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000243582**

Districtnu:	1	Apinumber:	03727378
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	175' KB	Locationde:	Fr NEcor sec 1046S & 470W
Gissourcec:	opr		
Comments:	These GPS coordinates are not correct in DOMS. Need to be remapped by HQ. KG 8/10/2012.		
Leasename:	Not Reported	Wellnumber:	400-08
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	07-AUG-12
Welldeptha:	5298	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000243582		

CY726
East
1/2 - 1 Mile

OIL_GAS **CAOG11000188585**

Districtnu:	1	Apinumber:	03700097
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	158.583	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf

Leasename:	Not Reported	Wellnumber:	416-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	3546	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000188585		

CU727
ESE **OIL_GAS** **CAOG11000242558**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03727351
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 175.0		
Locationde:	1071.9' South along section line & 469.6' West @ right angles to said line from the Northeast corner of section 6-3S-11W		
Gissourcec:	opr	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	400-05
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	04-MAY-12
Welldeptha:	5532	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000242558		

DC728
SE **OIL_GAS** **CAOG11000211517**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716211
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Steinly	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211517		

Map ID
Direction
Distance

Database EDR ID Number

DE729
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192105**

Districtnu:	1	Apinumber:	03714753
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	156.782	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	415-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192105		

DC730
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211653**

Districtnu:	1	Apinumber:	03716387
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211653		

CW731
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000210912**

Districtnu:	1	Apinumber:	03715484
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pyramid Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jalk	Wellnumber:	9

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210912		

CY732
East
1/2 - 1 Mile

OIL_GAS **CAOG11000194365**

Districtnu:	1	Apinumber:	03723599
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	155.926	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	499-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000194365		

DE733
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190623**

Districtnu:	1	Apinumber:	03709048
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	160.503	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	409-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190623		

CV734
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192112**

Districtnu:	1	Apinumber:	03714760
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.847	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-433-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192112		

CV735
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192113**

Districtnu:	1	Apinumber:	03714760
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.847	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-433-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192113		

DB736
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000190613**

Districtnu:	1	Apinumber:	03709040
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	146.747	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	488-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190613		

Map ID
Direction
Distance

Database EDR ID Number

CY737
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190606**

Districtnu:	1	Apinumber:	03709034
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	157.181	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	420-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	6770	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190606		

CY738
East
1/2 - 1 Mile

OIL_GAS **CAOG11000216891**

Districtnu:	1	Apinumber:	03727224
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	169' KB	Locationde:	Fr NW cor sec 310W & 316S
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	400-02
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	18-AUG-11
Welldeptha:	5208	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000216891		

CY739
East
1/2 - 1 Mile

OIL_GAS **CAOG11000243585**

Districtnu:	1	Apinumber:	03727379
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	178' KB	Locationde:	Fr NE cor sec 291S & 308W
Gissourcec:	opr	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	654

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	05-JUL-12
Welldeptha:	5272	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000243585		

CY740
East
1/2 - 1 Mile

OIL_GAS **CAOG11000243579**

Districtnu:	1	Apinumber:	03727376
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	178'KB	Locationde:	FR NE cor sec 410S and 314W
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	653
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	20-JUN-12
Welldeptha:	7815	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000243579		

CY741
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211029**

Districtnu:	1	Apinumber:	03715614
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211029		

CY743
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190621**

Districtnu:	1	Apinumber:	03709046
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	159.755	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-430-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190621		

CY742
East **OIL_GAS** **CAOG11000190620**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709046
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	159.755	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-430-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000190620		

CY744
East **OIL_GAS** **CAOG11000211024**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715609
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	B
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000211024		

Map ID
Direction
Distance

Database EDR ID Number

DF745
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211025**

Districtnu:	1	Apinumber:	03715610
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211025		

CY746
East
1/2 - 1 Mile

OIL_GAS **CAOG11000296097**

Districtnu:	1	Apinumber:	03730033
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 177		
Locationde:	Well is 545.2' south along section line and 326.8' West at right angles to said line from the northeast corner of section 6-3S-11W.		
Gissourcec:	noi		
Comments:	Well is directionally drill show proposed coordinates from surface location and true vertical depth at total depth 325' norht and 77' east. Estimated true vertical depth 6475'.		
Leasename:	Not Reported	Wellnumber:	W-400-10-L
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	10-FEB-13
Welldeptha:	6525	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	20-FEB-13
Directiona:	Directionally drilled	Gissymbol:	AWF
Site id:	CAOG11000296097		

CY747
East
1/2 - 1 Mile

OIL_GAS **CAOG11000296098**

Districtnu:	1	Apinumber:	03730033
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S

Range:	11W	Basemeridi:	SB
Elevation:	KB 177		
Locationde:	Well is 545.2' south along section line and 326.8' West at right angles to said line from the northeast corner of section 6-3S-11W.		
Gissourcec:	noi		
Comments:	Well is directionally drill show proposed coordinates from surface location and true vertical depth at total depth 325' norht and 77' east. Estimated true vertical depth 6475'.		
Leasename:	Not Reported	Wellnumber:	W-400-10-L
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	10-FEB-13
Welldeptha:	6525	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	20-FEB-13
Directiona:	Directionally drilled	Gissymbol:	AWF
Site id:	CAOG11000296098		

DF748
East **OIL_GAS** **CAOG11000211033**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715618
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211033		

CV749
ESE **OIL_GAS** **CAOG11000297829**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03730115
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	KB 175		
Locationde:	Well is 845.9' south along section line and 372.4' west at right angles to said line from the northeast corner of Sec. 6-3S-11W		
Gissourcec:	noi		
Comments:	Well is directionally drilled, show proposed coordinates from surface location and true vertical depth at total depth: 139' south and 771' east. Estimated true vertical depth 5479'.		
Leasename:	Not Reported	Wellnumber:	649
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported

Directiona:	Unknown	Gissymbol:	NOG
Site id:	CAOG11000297829		

CU750
ESE **OIL_GAS** **CAOG11000200677**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03700101
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	96
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200677		

DG751
ESE **OIL_GAS** **CAOG11000217239**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03727214
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	169’ KB	Locationde:	Fr NE sec cor 438’W & 1141’S
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	583
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	27-JUL-11
Welldeptha:	5217	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000217239		

DG752
ESE **OIL_GAS** **CAOG11000192128**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714772
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB

Elevation:	153.847	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	466-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192128		

DH753
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211588**

Districtnu:	1	Apinumber:	03716315
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	337-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211588		

DF754
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000188587**

Districtnu:	1	Apinumber:	03700100
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	164.181	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	402-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000188587		

Map ID
Direction
Distance

Database EDR ID Number

DH755
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000194167**

Districtnu:	1	Apinumber:	03723346
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	154.827	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	374-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000194167		

DB756
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192562**

Districtnu:	1	Apinumber:	03716313
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	149.085	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	351-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192562		

DB757
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000206896**

Districtnu:	1	Apinumber:	03709053
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	487-E

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206896		

DG758
ESE **OIL_GAS** **CAOG11000190605**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709033
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151.988	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	449-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190605		

CZ759
SE **OIL_GAS** **CAOG11000210383**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714734
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Blanchard	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210383		

DI761
East **OIL_GAS** **CAOG11000190641**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709070
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.949	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-431-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190641		

DI760
East
1/2 - 1 Mile

OIL_GAS **CAOG11000190640**

Districtnu:	1	Apinumber:	03709070
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.949	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-431-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190640		

DH762
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210431**

Districtnu:	1	Apinumber:	03714812
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Co-Operative Oil Corp.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210431		

Map ID
Direction
Distance

Database EDR ID Number

DB763
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211568**

Districtnu:	1	Apinumber:	03716287
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Comstock Housing, Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	85-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211568		

DG764
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000190616**

Districtnu:	1	Apinumber:	03709043
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.321	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	451-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190616		

DH765
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211405**

Districtnu:	1	Apinumber:	03716094
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Santa Fe Springs Drilling Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	4

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211405		

DG766
ESE **OIL_GAS** **CAOG11000211028**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715613
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211028		

DB767
ESE **OIL_GAS** **CAOG11000211582**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716307
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	565-D
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211582		

DG768
East **OIL_GAS** **CAOG11000206901**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709067
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	443-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206901		

DJ769
ENE **OIL_GAS** **CAOG11000192114**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714761
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	155.135	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-401-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192114		

DJ771
ENE **OIL_GAS** **CAOG11000192116**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714761
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	155.135	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-401-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192116		

Map ID
Direction
Distance

Database EDR ID Number

DJ770
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000192115**

Districtnu:	1	Apinumber:	03714761
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	155.135	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	W-401-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192115		

DD772
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211658**

Districtnu:	1	Apinumber:	03716392
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211658		

CZ773
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192576**

Districtnu:	1	Apinumber:	03716436
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	144.729	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	324-B

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192576		

DB774
ESE **OIL_GAS** **CAOG11000192138**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714787
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	148.408	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	486-G
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192138		

775
ENE **OIL_GAS** **CAOG11000211641**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716375
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Donnelly	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211641		

CZ776
SE **OIL_GAS** **CAOG11000210379**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714730
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Blanchard	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210379		

DC777
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211501**

Districtnu:	1	Apinumber:	03716194
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	314-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211501		

DI778
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210401**

Districtnu:	1	Apinumber:	03714758
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	441-D
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210401		

Map ID
Direction
Distance

Database EDR ID Number

DB779
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211564**

Districtnu:	1	Apinumber:	03716283
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	79-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211564		

DG780
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000190626**

Districtnu:	1	Apinumber:	03709052
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	152.594	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	450-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190626		

DH781
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211570**

Districtnu:	1	Apinumber:	03716289
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	86-A

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211570		

782
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000192354**

Districtnu:	1	Apinumber:	03715492
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hathaway Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	130.837	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66607148.ssf
Leasename:	Jalk	Wellnumber:	119
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192354		

DH783
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192568**

Districtnu:	1	Apinumber:	03716324
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	145.243	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	331G
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192568		

DB784
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211589**

Districtnu:	1	Apinumber:	03716318
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Community	Wellnumber:	186F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211589		

DH785
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000194261**

Districtnu:	1	Apinumber:	03723470
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	143.283	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	376-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000194261		

DG786
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000206898**

Districtnu:	1	Apinumber:	03709060
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	61
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206898		

Map ID
Direction
Distance

Database EDR ID Number

DB787
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211585**

Districtnu:	1	Apinumber:	03716310
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	567-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211585		

DE788
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210405**

Districtnu:	1	Apinumber:	03714773
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	408-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210405		

DG789
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000190633**

Districtnu:	1	Apinumber:	03709062
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	150.965	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	467-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	5362	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190633		

CZ790
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210381**

Districtnu:	1	Apinumber:	03714732
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Blanchard	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210381		

DD791
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211648**

Districtnu:	1	Apinumber:	03716382
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211648		

CZ792
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211698**

Districtnu:	1	Apinumber:	03716437
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Donald S. Redington	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Blanchard	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211698		

DB793
ESE **OIL_GAS** **CAOG11000211565**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716284
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	566-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211565		

DK794
SSW **OIL_GAS** **CAOG11000204520**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03705200
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Chas B. Behr Oil Synd.	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000204520		

Map ID
Direction
Distance

Database EDR ID Number

DD795
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211656**

Districtnu:	1	Apinumber:	03716390
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211656		

DG796
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000190607**

Districtnu:	1	Apinumber:	03709035
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151.472	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	481-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190607		

DB797
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192142**

Districtnu:	1	Apinumber:	03714801
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	148.975	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	547-C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192142		

DG798
ESE **OIL_GAS** **CAOG11000206900**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709064
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	65
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206900		

DG799
ESE **OIL_GAS** **CAOG11000206889**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709028
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206889		

DK800
SSW **OIL_GAS** **CAOG11000211141**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715782
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Laddie Boy Nos. 1 & 2	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	1	Township:	03S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000211141		

DH801
ESE **OIL_GAS** **CAOG11000211590**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716319
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	186G
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211590		

DH802
ESE **OIL_GAS** **CAOG11000210420**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714799
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Calstar Petroleum Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Star	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210420		

Map ID
Direction
Distance

Database EDR ID Number

DG804
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000217191**

Districtnu:	1	Apinumber:	03727140
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	153'	Locationde:	Not Reported
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	W-400-01-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	5926	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000217191		

DG803
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000217190**

Districtnu:	1	Apinumber:	03727140
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	153'	Locationde:	Not Reported
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	W-400-01-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	5926	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000217190		

DH805
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211592**

Districtnu:	1	Apinumber:	03716323
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	191C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211592		

DD806
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211655**

Districtnu:	1	Apinumber:	03716389
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211655		

DI807
East
1/2 - 1 Mile

OIL_GAS **CAOG11000243580**

Districtnu:	1	Apinumber:	03727377
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	178'KB	Locationde:	Fr NEcor sec 410S & 314W
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	655
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000243580		

DI808
East
1/2 - 1 Mile

OIL_GAS **CAOG11000243581**

Districtnu:	1	Apinumber:	03727377
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	N

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	178'KB	Locationde:	Fr NEcor sec 410S & 314W
Gissourcec:	sum	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	655
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	17-AUG-12
Welldeptha:	5806	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000243581		

DL810
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192580**

Districtnu:	1	Apinumber:	03716444
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	172.513	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-319-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192580		

DL809
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192579**

Districtnu:	1	Apinumber:	03716444
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	172.513	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-319-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192579		

Map ID
Direction
Distance

Database EDR ID Number

DI811
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210409**

Districtnu:	1	Apinumber:	03714781
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Fee	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210409		

DI812
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192133**

Districtnu:	1	Apinumber:	03714780
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	154.655	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	442-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192133		

DD813
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211654**

Districtnu:	1	Apinumber:	03716388
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	12

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211654		

DH814
SE **OIL_GAS** **CAOG11000211574**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716293
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	91-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211574		

DL815
SE **OIL_GAS** **CAOG11000210382**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714733
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Blanchard	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210382		

DG816
ESE **OIL_GAS** **CAOG11000192132**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714779
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	153.244	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	452-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192132		

DH817
ESE **OIL_GAS** **CAOG11000192143**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714802
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	147.577	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	537-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192143		

DM818
SE **OIL_GAS** **CAOG11000211504**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716197
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	W-305-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211504		

Map ID
Direction
Distance

Database EDR ID Number

DG819
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000190614**

Districtnu:	1	Apinumber:	03709041
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151.43	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	483-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000190614		

DM820
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211498**

Districtnu:	1	Apinumber:	03716191
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	B
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Patterson	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000211498		

DM821
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211646**

Districtnu:	1	Apinumber:	03716380
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Koontz	Wellnumber:	4

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211646		

DN822
ESE **OIL_GAS** **CAOG11000211583**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716308
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	548-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211583		

DN823
ESE **OIL_GAS** **CAOG11000211579**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716303
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	546-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211579		

DC824
SE **OIL_GAS** **CAOG11000211499**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716192
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Patterson B	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211499		

DG825
ESE **OIL_GAS** **CAOG11000210408**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714777
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	453-N
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210408		

826
NE **OIL_GAS** **CAOG11000204694**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03705469
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	S. L. Hartman	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Campos	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000204694		

Map ID
Direction
Distance

Database EDR ID Number

DG827
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192124**

Districtnu:	1	Apinumber:	03714769
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	148.314	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611138.ssf
Leasename:	Not Reported	Wellnumber:	482-D
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192124		

DN828
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211563**

Districtnu:	1	Apinumber:	03716282
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	79
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211563		

DN829
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211562**

Districtnu:	1	Apinumber:	03716281
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	78

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211562		

DG830
ESE **OIL_GAS** **CAOG11000210410**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714784
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	468-S
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210410		

DH831
ESE **OIL_GAS** **CAOG11000211576**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716297
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	177E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211576		

DN832
ESE **OIL_GAS** **CAOG11000206894**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709049
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	484-S
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206894		

DN833
ESE **OIL_GAS** **CAOG11000210421**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714800
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Calstar Petroleum Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Star	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210421		

DN834
ESE **OIL_GAS** **CAOG11000192559**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716304
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	150.25	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-564-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000192559		

Map ID
Direction
Distance

Database EDR ID Number

835
NNW
1/2 - 1 Mile

OIL_GAS **CAOG11000205159**

Districtnu:	1	Apinumber:	03706172
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Flood	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000205159		

DL836
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210380**

Districtnu:	1	Apinumber:	03714731
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Blanchard	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210380		

DL837
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210863**

Districtnu:	1	Apinumber:	03715425
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Monte	Wellnumber:	22

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210863		

DL838
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211238**

Districtnu:	1	Apinumber:	03715897
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211238		

DO839
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211561**

Districtnu:	1	Apinumber:	03716280
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	77-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211561		

DN840
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211578**

Districtnu:	1	Apinumber:	03716302
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	178B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211578		

DN841
ESE **OIL_GAS** **CAOG11000211580**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716305
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	563-J
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211580		

DL842
SE **OIL_GAS** **CAOG11000211252**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715911
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Community	Wellnumber:	26
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211252		

Map ID
Direction
Distance

Database EDR ID Number

DL843
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211230**

Districtnu:	1	Apinumber:	03715889
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211230		

DL844
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211699**

Districtnu:	1	Apinumber:	03716438
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	315-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211699		

DL845
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210375**

Districtnu:	1	Apinumber:	03714726
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Blanchard	Wellnumber:	2

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210375		

DP846
East **OIL_GAS** **CAOG11000211364**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716049
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	614-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211364		

DL847
SE **OIL_GAS** **CAOG11000211392**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716080
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Rothschild Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Monte	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211392		

DM848
SE **OIL_GAS** **CAOG11000211503**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716196
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	304-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211503		

DO849
ESE **OIL_GAS** **CAOG11000211575**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716295
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	177C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211575		

DP850
East **OIL_GAS** **CAOG11000211074**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715677
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	610-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211074		

Map ID
Direction
Distance

Database EDR ID Number

DQ851
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000210452**

Districtnu:	1	Apinumber:	03714835
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	East Santa Fe Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jalk	Wellnumber:	115
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000210452		

DN852
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211581**

Districtnu:	1	Apinumber:	03716306
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	562-D
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211581		

DL853
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210887**

Districtnu:	1	Apinumber:	03715449
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S.F.S.	Wellnumber:	42

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210887		

DL854
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210862**

Districtnu:	1	Apinumber:	03715424
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Monte	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210862		

DL855
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211248**

Districtnu:	1	Apinumber:	03715907
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	22
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211248		

DR856
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211079**

Districtnu:	1	Apinumber:	03715690
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	630-N
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211079		

DN857
ESE **OIL_GAS** **CAOG11000211566**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716285
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	549-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211566		

DQ858
SSE **OIL_GAS** **CAOG11000206874**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03709013
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Axis Petroleum Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jalk	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000206874		

Map ID
Direction
Distance

Database EDR ID Number

DO859
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211559**

Districtnu:	1	Apinumber:	03716278
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	77
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211559		

DO860
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192554**

Districtnu:	1	Apinumber:	03716299
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	147.921	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-528-G
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192554		

DO863
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192555**

Districtnu:	1	Apinumber:	03716299
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	147.921	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-528-G

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192555		

DO862
ESE **OIL_GAS** **CAOG11000192556**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716299
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	147.921	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-528-G
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192556		

DO861
ESE **OIL_GAS** **CAOG11000192553**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716299
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	147.921	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-528-G
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192553		

DN864
ESE **OIL_GAS** **CAOG11000192557**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716300
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	149.885	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	545-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192557		

DN865
ESE **OIL_GAS** **CAOG11000211584**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716309
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	568-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211584		

DS866
SSE **OIL_GAS** **CAOG11000210911**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715483
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pyramid Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Jalk	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210911		

Map ID
Direction
Distance

Database EDR ID Number

DT867
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211231**

Districtnu:	1	Apinumber:	03715890
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211231		

DL868
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211234**

Districtnu:	1	Apinumber:	03715893
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211234		

DU869
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000211037**

Districtnu:	1	Apinumber:	03715622
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	32	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Bell	Wellnumber:	110

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211037		

DP870
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192394**

Districtnu:	1	Apinumber:	03715680
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	157.351	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	620-N
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192394		

DN871
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000202249**

Districtnu:	1	Apinumber:	03702092
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	576-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000202249		

DN872
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192558**

Districtnu:	1	Apinumber:	03716301
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	150.697	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	544-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	5289	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192558		

DR873
ESE **OIL_GAS** **CAOG11000211084**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715697
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	631-J
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211084		

DT874
SE **OIL_GAS** **CAOG11000211246**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715905
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	20
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211246		

Map ID
Direction
Distance

Database EDR ID Number

875
SSE **OIL_GAS** **CAOG11000210908**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715480
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Pyramid Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Booth	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210908		

DL876
SE **OIL_GAS** **CAOG11000211254**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715913
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Community	Wellnumber:	28
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211254		

DP877
East **OIL_GAS** **CAOG11000211073**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715676
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	611-E

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211073		

DP878
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211337**

Districtnu:	1	Apinumber:	03716012
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	609-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211337		

DL879
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211703**

Districtnu:	1	Apinumber:	03716445
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Reid & Berliner, Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Reiber	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211703		

DR880
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210918**

Districtnu:	1	Apinumber:	03715499
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I

Operatorna:	Pyramid Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Nordstrum	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210918		

DV881
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211043**

Districtnu:	1	Apinumber:	03715628
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	32	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Farwell	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211043		

DP882
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211077**

Districtnu:	1	Apinumber:	03715685
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	622-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211077		

Map ID
Direction
Distance

Database EDR ID Number

DR883
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211083**

Districtnu:	1	Apinumber:	03715694
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	644-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211083		

DO884
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192551**

Districtnu:	1	Apinumber:	03716294
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	147.66	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	536-P
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192551		

DR885
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210396**

Districtnu:	1	Apinumber:	03714748
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	569-S

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210396		

DP886
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211363**

Districtnu:	1	Apinumber:	03716048
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	615-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211363		

DR887
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211082**

Districtnu:	1	Apinumber:	03715693
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	632-D
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211082		

DW888
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210919**

Districtnu:	1	Apinumber:	03715501
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Pyramid Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S.F.S.	Wellnumber:	32
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210919		

DM889
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211502**

Districtnu:	1	Apinumber:	03716195
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	303-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211502		

DP890
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211057**

Districtnu:	1	Apinumber:	03715651
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	619-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211057		

Map ID
Direction
Distance

Database EDR ID Number

DP891
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192395**

Districtnu:	1	Apinumber:	03715682
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	158.85	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	623-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192395		

DP892
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211076**

Districtnu:	1	Apinumber:	03715683
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	621-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211076		

DM893
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211500**

Districtnu:	1	Apinumber:	03716193
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Patterson B	Wellnumber:	8

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211500		

DW894
ESE **OIL_GAS** **CAOG11000210904**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715472
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	561-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210904		

DV895
East **OIL_GAS** **CAOG11000211048**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715635
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	32	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	603-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211048		

DU896
ENE **OIL_GAS** **CAOG11000211862**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716729
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	32	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	600-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211862		

DW897
ESE **OIL_GAS** **CAOG11000210866**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715428
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S.F.S.	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210866		

DX898
SE **OIL_GAS** **CAOG11000211249**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715908
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	23
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211249		

Map ID
Direction
Distance

Database EDR ID Number

DO899
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211577**

Districtnu:	1	Apinumber:	03716298
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	177F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211577		

DT900
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211704**

Districtnu:	1	Apinumber:	03716446
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Reid & Berliner, Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Reiber	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211704		

DR901
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192471**

Districtnu:	1	Apinumber:	03715966
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	153.065	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	634-D

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192471		

DR902
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192472**

Districtnu:	1	Apinumber:	03715967
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151.235	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-633-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192472		

DR903
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192473**

Districtnu:	1	Apinumber:	03715967
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151.235	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-633-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192473		

DP904
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211365**

Districtnu:	1	Apinumber:	03716050
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	624-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211365		

DR905
ESE **OIL_GAS** **CAOG11000210395**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714747
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Pyramid Oil Company	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210395		

DO906
ESE **OIL_GAS** **CAOG11000211253**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715912
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Community	Wellnumber:	27
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211253		

Map ID
Direction
Distance

Database EDR ID Number

DR907
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192383**

Districtnu:	1	Apinumber:	03715654
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	160.576	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	625-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192383		

DS908
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000211139**

Districtnu:	1	Apinumber:	03715780
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Kirkpatrick Syndicate 2	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211139		

DR909
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211302**

Districtnu:	1	Apinumber:	03715965
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	636-B

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211302		

DT910
SE **OIL_GAS** **CAOG11000211236**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715895
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211236		

DQ911
SSE **OIL_GAS** **CAOG11000210454**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714837
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	East Santa Fe Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	National	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210454		

DW912
ESE **OIL_GAS** **CAOG11000211090**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715707
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	550-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211090		

DQ913
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000200876**

Districtnu:	1	Apinumber:	03700525
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	W-300-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000200876		

DQ914
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000200877**

Districtnu:	1	Apinumber:	03700525
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	W-300-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000200877		

Map ID
Direction
Distance

Database EDR ID Number

DX915
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211237**

Districtnu:	1	Apinumber:	03715896
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211237		

DR916
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210879**

Districtnu:	1	Apinumber:	03715441
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S.F.S.	Wellnumber:	20
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000210879		

DR918
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192475**

Districtnu:	1	Apinumber:	03715968
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	154.484	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	637-E

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192475		

DR917
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192474**

Districtnu:	1	Apinumber:	03715968
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	154.484	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	637-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192474		

DW919
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210397**

Districtnu:	1	Apinumber:	03714750
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	579-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210397		

DR920
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211081**

Districtnu:	1	Apinumber:	03715692
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	643-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211081		

DO921
ESE **OIL_GAS** **CAOG11000192552**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716296
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	148.283	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	535-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192552		

DT922
SE **OIL_GAS** **CAOG11000211243**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715902
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	17
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211243		

Map ID
Direction
Distance

Database EDR ID Number

DQ923
SSE **OIL_GAS** **CAOG11000211683**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716416
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Morton & Elder	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Smith	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211683		

DW924
ESE **OIL_GAS** **CAOG11000192103**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03714749
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151.808	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	560-R
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192103		

925
ENE **OIL_GAS** **CAOG11000211670**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716403
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mohawk Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Mcclintock	Wellnumber:	1

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211670		

DR926
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192384**

Districtnu:	1	Apinumber:	03715655
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	150.71	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	629-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192384		

DX927
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211239**

Districtnu:	1	Apinumber:	03715898
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211239		

DY928
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211228**

Districtnu:	1	Apinumber:	03715886
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211228		

DR929
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211301**

Districtnu:	1	Apinumber:	03715964
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	635-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211301		

DU930
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000211436**

Districtnu:	1	Apinumber:	03716126
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	32	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Sanchez	Wellnumber:	1-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211436		

Map ID
Direction
Distance

Database EDR ID Number

DW931
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210867**

Districtnu:	1	Apinumber:	03715429
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S.F.S.	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210867		

DV932
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211853**

Districtnu:	1	Apinumber:	03716715
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	32	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	601-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211853		

DW933
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211318**

Districtnu:	1	Apinumber:	03715986
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	578-B

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211318		

DZ934
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211879**

Districtnu:	1	Apinumber:	03716746
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Zephyr Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Johnson	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211879		

DU935
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000211666**

Districtnu:	1	Apinumber:	03716400
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	32	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	F.A. Sanchez	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211666		

DR936
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211058**

Districtnu:	1	Apinumber:	03715657
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	45-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211058		

DW937
ESE **OIL_GAS** **CAOG11000211089**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715705
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	551-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211089		

DO938
ESE **OIL_GAS** **CAOG11000211560**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716279
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe Comm.	Wellnumber:	77-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211560		

Map ID
Direction
Distance

Database EDR ID Number

DW939
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211314**

Districtnu:	1	Apinumber:	03715981
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	559-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211314		

DR940
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211340**

Districtnu:	1	Apinumber:	03716015
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	641-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211340		

DP941
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211078**

Districtnu:	1	Apinumber:	03715686
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	618-N

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211078		

DX942
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211247**

Districtnu:	1	Apinumber:	03715906
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211247		

DW943
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211317**

Districtnu:	1	Apinumber:	03715985
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	570-H
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211317		

EA944
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192497**

Districtnu:	1	Apinumber:	03716043
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	32	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	163.962	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	606-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192497		

DW946
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000189011**

Districtnu:	1	Apinumber:	03702091
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.814	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-577-M
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000189011		

DW947
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000189012**

Districtnu:	1	Apinumber:	03702091
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.814	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-577-M
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000189012		

Map ID
Direction
Distance

Database EDR ID Number

DW945
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000189010**

Districtnu:	1	Apinumber:	03702091
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	156.814	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-577-M
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000189010		

EA948
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211359**

Districtnu:	1	Apinumber:	03716042
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	608-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211359		

EA950
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192499**

Districtnu:	1	Apinumber:	03716044
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	32	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	158.772	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-607-B

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192499		

EA949
East **OIL_GAS** **CAOG11000192498**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716044
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	32	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	158.772	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-607-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192498		

EA951
East **OIL_GAS** **CAOG11000192393**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715679
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	157.519	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	613-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192393		

DR952
ESE **OIL_GAS** **CAOG11000211080**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715691
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	642-S
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211080		

EA953
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211338**

Districtnu:	1	Apinumber:	03716013
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	612-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211338		

DT954
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000211235**

Districtnu:	1	Apinumber:	03715894
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211235		

Map ID
Direction
Distance

Database EDR ID Number

DS955
SSE **OIL_GAS** **CAOG11000211140**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715781
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Kirkpatrick Syndicate 2	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wilshire-Gill	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000211140		

DW956
ESE **OIL_GAS** **CAOG11000211316**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715984
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	558-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211316		

DW957
ESE **OIL_GAS** **CAOG11000211315**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715982
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	571-E

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211315		

DP958
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192390**

Districtnu:	1	Apinumber:	03715678
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	159.687	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-616-L
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192390		

DP959
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192391**

Districtnu:	1	Apinumber:	03715678
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	159.687	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-616-L
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192391		

DP960
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192392**

Districtnu:	1	Apinumber:	03715678
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	159.687	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-616-L
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192392		

961
WNW
1/2 - 1 Mile

OIL_GAS **CAOG11000214071**

Districtnu:	1	Apinumber:	03720406
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	Crestmont Oil & Gas Co.	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	36	Township:	02S
Range:	12W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	M.G.M. Unit	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000214071		

DZ962
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210453**

Districtnu:	1	Apinumber:	03714836
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	East Santa Fe Oil Co.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Johnson	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210453		

Map ID
Direction
Distance

Database EDR ID Number

DW963
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192448**

Districtnu:	1	Apinumber:	03715794
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	148.924	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	543-D
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192448		

DP964
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192380**

Districtnu:	1	Apinumber:	03715652
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	157.462	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	617-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192380		

DY965
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211305**

Districtnu:	1	Apinumber:	03715972
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	527-P

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211305		

DY966
SE **OIL_GAS** **CAOG11000192459**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715821
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	146.545	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	522-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192459		

DW967
ESE **OIL_GAS** **CAOG11000192477**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715983
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	158.783	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	557-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	7778	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192477		

EB968
ESE **OIL_GAS** **CAOG11000194246**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03723445
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	153.672	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	646-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000194246		

969
NNE **OIL_GAS** **CAOG11000204592**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03705312
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	Conoco Inc.	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	31	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Felix	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000204592		

EB970
ESE **OIL_GAS** **CAOG11000194171**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03723350
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	152.575	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	645-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000194171		

Map ID
Direction
Distance

Database EDR ID Number

DU971
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000211039**

Districtnu:	1	Apinumber:	03715624
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	32	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	W-800-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000211039		

DW972
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211060**

Districtnu:	1	Apinumber:	03715662
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	552-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211060		

DW973
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192409**

Districtnu:	1	Apinumber:	03715708
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	153.867	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	556-F

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192409		

EB974
East **OIL_GAS** **CAOG11000211550**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716251
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	626-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211550		

975
ESE **OIL_GAS** **CAOG11000211149**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715792
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	542-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211149		

976
SE **OIL_GAS** **CAOG11000211242**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715901
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P

Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211242		

DX977
SE **OIL_GAS** **CAOG11000211251**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715910
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Community	Wellnumber:	25
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211251		

DX978
SE **OIL_GAS** **CAOG11000211241**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715900
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Walker Comm.	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211241		

Map ID
Direction
Distance

Database EDR ID Number

DY979
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192460**

Districtnu:	1	Apinumber:	03715822
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151.428	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-521-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192460		

DY981
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192462**

Districtnu:	1	Apinumber:	03715822
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151.428	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-521-E
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192462		

DY980
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000192461**

Districtnu:	1	Apinumber:	03715822
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	151.428	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	W-521-E

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AWF
Site id:	CAOG11000192461		

EB982
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192396**

Districtnu:	1	Apinumber:	03715684
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	154.271	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	627-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192396		

DV983
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211361**

Districtnu:	1	Apinumber:	03716046
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	32	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Santa Fe	Wellnumber:	29-D
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211361		

DW984
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000192412**

Districtnu:	1	Apinumber:	03715711
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A

Operatorna:	Breitburn Operating L.P.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	157.656	Locationde:	Not Reported
Gissourcec:	gps	Comments:	66611128.ssf
Leasename:	Not Reported	Wellnumber:	572-F
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192412		

DY985
ESE **OIL_GAS** **CAOG11000211303**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03715969
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	526-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211303		

DU986
ENE **OIL_GAS** **CAOG11000211865**
1/2 - 1 Mile

Districtnu:	1	Apinumber:	03716732
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	32	Township:	02S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Sanchez	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211865		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

DY987
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210873**

Districtnu:	1	Apinumber:	03715435
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	6	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	S.F.S.	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210873		

DW988
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000211061**

Districtnu:	1	Apinumber:	03715664
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Mobil Oil Corporation	Countyname:	Los Angeles
Fieldname:	Santa Fe Springs	Areaname:	Any Area
Section:	5	Township:	03S
Range:	11W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Not Reported	Wellnumber:	555-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211061		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
90670	3	0

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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9920 Pioneer Blvd
9920 Pioneer Blvd
Santa Fe Springs, CA 90670

Inquiry Number: 5552600.5
February 04, 2019

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

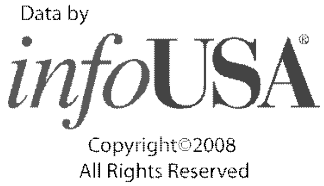
Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	X	X	-
2010	EDR Digital Archive	-	X	X	-
2006	Haines Company, Inc.	-	X	X	-
	Haines Company, Inc.	X	X	X	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	X	X	-
2001	Haines & Company, Inc.	-	-	-	-
2000	Pacific Bell Telephone	-	-	-	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	-	-	-
1990	Pacific Bell	-	X	X	-
1986	Pacific Bell	-	X	X	-
1985	Pacific Bell	-	X	X	-
1981	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1980	Pacific Telephone	-	X	X	-
1976	R.L. Polk & Co Publishers	-	-	-	-
1975	Pacific Telephone	-	-	-	-
1972	R. L. Polk & Co.	-	-	-	-
1971	R. L. Polk & Co.	-	-	-	-
1970	Pacific Telephone	-	-	-	-
1969	Pacific Telephone	-	-	-	-
1967	R. L. Polk & Co.	-	-	-	-
1966	Pacific Telephone	-	-	-	-
1965	GTE	-	-	-	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	-	-	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1958	Pacific Telephone	-	X	X	-
1957	Pacific Telephone	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Los Angeles Directory Co Publishers	-	-	-	-
1950	Pacific Telephone	-	-	-	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Los Angeles Directory Co.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	The Glendale Directory Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Company Publishers	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

9920 Pioneer Blvd
Santa Fe Springs, CA 90670

FINDINGS DETAIL

Target Property research detail.

PIONEER BLVD

9920 PIONEER BLVD

Year	Uses	Source
2006	SOCIAL	Haines Company, Inc.
	VOCATIONAL SVCS	Haines Company, Inc.

S PIONEER BLVD

9920 S PIONEER BLVD

Year	Uses	Source
1995	Coastal Communities Hospital Day Treatment	Pacific Bell
	Coastal Connection Dur	Pacific Bell
1981	HEALTHPLAN OF CALIFORNIA-LABORATORY SANTA FE SPRINGS	Pacific Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

E HAMDEN PL

11824 E HAMDEN PL

Year	Uses	Source
1990	SPOTNAILS SANTA FE SPRINGS	Pacific Bell
	ACTIVE SALES CO INC S F SPS	Pacific Bell
1986	ACTIVE SALES CO INC SE SPS	Pacific Bell

E TELEGRAPH RD

11761 E TELEGRAPH RD

Year	Uses	Source
1995	Therafuslon Inc	Pacific Bell
1981	RED CARPET SCHOOL OF REAL ESTATE SF SPS	Pacific Telephone

11809 E TELEGRAPH RD

Year	Uses	Source
1990	PROFESSIONAL DISPLAY L A SANTA FE SPRINGS	Pacific Bell
	SKYLINE DISPLAYS INC SANTA FE SPRINGS	Pacific Bell

11845 E TELEGRAPH RD

Year	Uses	Source
1981	RUG DOCTOR INC DISTRICT OFFICE SANTA FE SPRINGS	Pacific Telephone
1980	Rug Doctor Rents	Pacific Telephone
	Rug Doctor Inc District Office	Pacific Telephone

Hamden Pl

11824 Hamden Pl

Year	Uses	Source
2014	MERITEK ELECTRONICS CORP	EDR Digital Archive
	PSC CIRCUITS INC	EDR Digital Archive
2010	PSC CIRCUITS INC	EDR Digital Archive
	MERITEK ELECTRONICS CORP	EDR Digital Archive

FINDINGS

HAMDEN PL

11824 HAMDEN PL

Year	Uses	Source
2006	ELECTRONICS PSC CIRCUITS INC	Haines Company, Inc.
	MERITEK	Haines Company, Inc.
2003	ELECTRONICS PSCCIRCUITSINC	Haines & Company
	MERITEK	Haines & Company
1990	PASLOAD STAPLERS STSPS	Pacific Bell
	HAUBOLD STAPLERS SANTA FE SPRINGS	Pacific Bell
	ACTIVE SALES CO INC S F SPS	Pacific Bell
1985	SPOTNAILS	Pacific Bell
	ACTIVE SALES CO INC	Pacific Bell
1980	ACTIVE SALES CO INC HAMDEN PL SANTE FE SPRINGS	Pacific Telephone

Hamden Pl

11829 Hamden Pl

Year	Uses	Source
2014	EVASIVE MOTORSPORTS	EDR Digital Archive
2010	MEXILEON SHOES INC	EDR Digital Archive

HAMDEN PL

11829 HAMDEN PL

Year	Uses	Source
2006	PACKAGING	Haines Company, Inc.
	PIONEER	Haines Company, Inc.
2003	PIONEER PACKAGING	Haines & Company
1995	ABBOTT HOME INFUSION SERVICES	Pacific Bell
1985	ABBOTT HOME CARE	Pacific Bell
	ABBOTT HOME CARE	Pacific Bell
1980	POLISH AMERICAN MACHINERY CORP HAMDEN PL SANTE FE SPRINGS	Pacific Telephone
	POLAMCO HAMDEN PL SANTE FE SPRINGS	Pacific Telephone

FINDINGS

Hamden Pl

11842 Hamden Pl

Year	Uses	Source
2014	CRITERION CUSTOM FLOORS	EDR Digital Archive
2010	CRITERION CUSTOM FLOORS	EDR Digital Archive

HAMDEN PL

11842 HAMDEN PL

Year	Uses	Source
2006	CRITERION CUSTOM	Haines Company, Inc.
2003	PAMECOCORP	Haines & Company
1990	ARA CORY REFRESHMENT SERVICES SANTA FE SPRINGS	Pacific Bell
1985	EXCLUSIVELY BETTIE LINGERIE	Pacific Bell
	PRIMA SALES CORP	Pacific Bell
1980	CATTANI LINGERIE HAMDEN PL SANTE FE SPRINGS	Pacific Telephone
	PRIMA SALES CORP HAMDEN PL SANTE FE SPRINGS	Pacific Telephone

Hamden Pl

11850 Hamden Pl

Year	Uses	Source
2014	QUALCO FIRE PROTECTION INC	EDR Digital Archive
2010	QUALCO FIRE PROTECTION INC	EDR Digital Archive
	SAVANT CONSTRUCTION	EDR Digital Archive
	WNMAX PLAZA JOINT VENTURE	EDR Digital Archive
	GROUP SAVANT INC	EDR Digital Archive

HAMDEN PL

11850 HAMDEN PL

Year	Uses	Source
2006	SAVANT	Haines Company, Inc.
	CONSTRUCTION INC	Haines Company, Inc.
2003	XXXX	Haines & Company
1995	Andreco Refractory Services Inc	Pacific Bell
	ANDCO INC GLASS DIVISION	Pacific Bell

FINDINGS

Year	Uses	Source
1995	ANDRECO REFRACTORY SERVICES INC	Pacific Bell
1985	ANDCO INC GLASS DIVISION	Pacific Bell
	ANDRECO REFRACTORY SERVICES INC	Pacific Bell

Hamden Pl

11908 Hamden Pl

Year	Uses	Source
2014	LONG BEACH COMMUNITY ACTION	EDR Digital Archive
	EXPRESS LITHO INC	EDR Digital Archive
	MSA ARCHITECTURE & PLANNING	EDR Digital Archive
2010	LONG BEACH COMMUNITY ACTION	EDR Digital Archive

HAMDEN PL

11908 HAMDEN PL

Year	Uses	Source
2006	VISUAL CONCEPTS	Haines Company, Inc.
	EXPRESS LITHO INC	Haines Company, Inc.
	PRINTING EXPRESS LITHO	Haines Company, Inc.
	COLOR TANGO	Haines Company, Inc.
2003	EXTREME FINISHING	Haines & Company
1990	TAYWOOD STEEL PRODUCTS S F SPS	Pacific Bell
1985	TAYWOOD STEEL PRODUCTS	Pacific Bell
1981	TAYWOOD STEEL PRODUCTS SF SPS	Pacific Telephone
1980	TAYWOOD STEEL PRODUCTS HAMDEN PL SANTE FE SPRINGS	Pacific Telephone

Hamden Pl

11911 Hamden Pl

Year	Uses	Source
2014	WALTERS WHOLESALE ELECTRIC CO	EDR Digital Archive
2010	WALTERS WHOLESALE ELECTRIC CO	EDR Digital Archive

FINDINGS

HAMDEN PL

11911 HAMDEN PL

Year	Uses	Source
2006	WHOLESALE	Haines Company, Inc.
	WALTERS	Haines Company, Inc.
2003	WALTERS WHOLESALE	Haines & Company
1995	VANTAGE POINT PRODUCTS CORP	Pacific Bell
1985	PACKING SERVICES	Pacific Bell
	GREATER BAY AREA MOVING	Pacific Bell

Hamden Pl

11929 Hamden Pl

Year	Uses	Source
2014	SPACE CONCEPTS EQUIPMENT CONS	EDR Digital Archive
	MIONIKA	EDR Digital Archive
	FORKLIFT SAFETY COLLEGE CO	EDR Digital Archive
	SCEC INC	EDR Digital Archive
	SOUTHERN CAL EQP COOP LLC	EDR Digital Archive
2010	PGW AUTO GLASS LLC	EDR Digital Archive
	CUPERTINO ELECTRIC	EDR Digital Archive

HAMDEN PL

11929 HAMDEN PL

Year	Uses	Source
2006	OROURKE BROS	Haines Company, Inc.
	DISTRIBUTING	Haines Company, Inc.
2003	0ROURKEBROS	Haines & Company
	DISTRIBUTING	Haines & Company

Hamden Pl

11930 Hamden Pl

Year	Uses	Source
2014	ORANGE RESTORATION INC	EDR Digital Archive
2010	SUPERIOR PRINTING INC	EDR Digital Archive

FINDINGS

HAMDEN PL

11930 HAMDEN PL

Year	Uses	Source
2006	SUPERIOR PRESS	Haines Company, Inc.
	SUPERIORPRESS	Haines Company, Inc.
	SUPERIOR PRESS	Haines Company, Inc.
2003	XXXX	Haines & Company
1995	Laminate Office Furniture	Pacific Bell
	LAMINATE OFFICE FURNITURE	Pacific Bell
1990	20TH CENTURY VENDING SERVICES SANTA FE SPRINGS	Pacific Bell
1986	20TH CENTURY VENDING SERVICES SF SPGS	Pacific Bell
1985	DELIMATIC REFRESHMENT SERVICES	Pacific Bell
1981	DELIMATIC REFRESHMENT SERVICE SANTA FE SPRINGS	Pacific Telephone
1980	DELIMATIC REFRESHMENT SERVICES HAMDEN PL SANTE FE SPRINGS	Pacific Telephone

Pioneer Blvd

9912 Pioneer Blvd

Year	Uses	Source
2014	REM SALES LLC	EDR Digital Archive
	AUTOMATED CONCEPTS LLC	EDR Digital Archive
	ELLISON MACHINERY CO	EDR Digital Archive
	ELLISON TECHNOLOGIES INC	EDR Digital Archive
2010	AUTOMATED CONCEPTS LLC	EDR Digital Archive
	ELLISON MACHINERY CO	EDR Digital Archive
	ELLISON TECHNOLOGIES INC	EDR Digital Archive
	ELLISON TECHNOLOGIES INC	EDR Digital Archive

PIONEER BLVD

9912 PIONEER BLVD

Year	Uses	Source
2006	ELUSON	Haines Company, Inc.
	MACHINERY ELUSON SYSTEMS	Haines Company, Inc.
	SIERRA CONCEPTS	Haines Company, Inc.

FINDINGS

Pioneer Blvd

9916 Pioneer Blvd

Year	Uses	Source
2014	VERIS	EDR Digital Archive
	GOODMAN AUDIO SERVICES INC	EDR Digital Archive
2010	VERIS	EDR Digital Archive

PIONEER BLVD

9916 PIONEER BLVD

Year	Uses	Source
2006	PAC LABOR GROUP	Haines Company, Inc.

Pioneer Blvd

9926 Pioneer Blvd

Year	Uses	Source
2014	L TECH NETWORK SERVICES INC	EDR Digital Archive
	CYPRESS SECURITY LLC	EDR Digital Archive
	AC AUDIO SERVICES	EDR Digital Archive
	L TECH PROFESSIONAL SVCS INC	EDR Digital Archive
	GOLDEN STAR DEVELOPMENT INC	EDR Digital Archive
2010	L TECH PROFESSIONAL SVCS INC	EDR Digital Archive
	BANTEK WEST INC	EDR Digital Archive
	FRONTIER BUILDING MAINT INC	EDR Digital Archive
	L TECH NETWORK SERVICES INC	EDR Digital Archive
	VISUAL INSIGHT	EDR Digital Archive

PIONEER BLVD

9926 PIONEER BLVD

Year	Uses	Source
2006	BANTEKWEST INC	Haines Company, Inc.

Pioneer Blvd

9930 Pioneer Blvd

Year	Uses	Source
2014	CALIFORNIA CABINET	EDR Digital Archive
	A&A BROTHERS CABINETS & MORE	EDR Digital Archive

FINDINGS

Year	Uses	Source
2014	APRIA HEALTHCARE LLC	EDR Digital Archive
	FAST UNDERCAR	EDR Digital Archive
	HN PLUS INC	EDR Digital Archive
	MANAGEMENT OFFICE LLC	EDR Digital Archive
2010	CALIFORNIA CABINET	EDR Digital Archive
	HN PLUS INC	EDR Digital Archive
	FAST UNDERCAR	EDR Digital Archive
	APRIA HEALTHCARE INC	EDR Digital Archive
	A&A BROTHERS CABINETS & MORE	EDR Digital Archive
	CDS DEVELOPMENT INC A CORP	EDR Digital Archive

PIONEER BLVD

9930 PIONEER BLVD

Year	Uses	Source
2006	CDSBUILDERSINC	Haines Company, Inc.
	COLORCOM INC	Haines Company, Inc.
	COLORCOMINC	Haines Company, Inc.

9947 PIONEER BLVD

Year	Uses	Source
2006	CERAMICASAN	Haines Company, Inc.
	LORENZOUSA	Haines Company, Inc.

10001 PIONEER BLVD

Year	Uses	Source
2006	DOWNEY OFF ROAD	Haines Company, Inc.

Pioneer Blvd

10002 Pioneer Blvd

Year	Uses	Source
2014	PARADICE EXPOSITION SERVICES	EDR Digital Archive
	FRONTIER BUILDING MAINT INC	EDR Digital Archive
	VALLEY MAINTENANCE CORP	EDR Digital Archive
	TRI STATE ESCOBAR	EDR Digital Archive
	K & S APPAREL INC	EDR Digital Archive
	HOBBY HUB	EDR Digital Archive
	NEWSTONE PRODUCTS INC	EDR Digital Archive
2010	INTERNATIONAL FOOD SERVICE	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	NEWSTONE PRODUCTS INC	EDR Digital Archive
	KYONG HWAN	EDR Digital Archive
	CHRISTY FASHION	EDR Digital Archive
	TRI STATE ESCOBAR	EDR Digital Archive
	ONE STOP PRINTING 15	EDR Digital Archive
	PRECISION SCALE	EDR Digital Archive
	K & S APPAREL INC	EDR Digital Archive
	PREMIER CLASS INSURANCE SVC	EDR Digital Archive
	NOBLE HOUSE INC	EDR Digital Archive
	SEUNG & HEE CORPORATION	EDR Digital Archive
	PARADICE EXPOSITION SERVICES	EDR Digital Archive
	JOHN NATHAN VILLAGRANA XXX XX	EDR Digital Archive

PIONEER BLVD

10002 PIONEER BLVD

Year	Uses	Source
2006	CORPORATION	Haines Company, Inc.
	SEUNG &HEE	Haines Company, Inc.
	DA E INSTRUMENTS	Haines Company, Inc.
	ONESTOPPRINTING	Haines Company, Inc.
	& GRAPHICS PREMIER CLASS INS	Haines Company, Inc.
	SVINC SALEMPaul	Haines Company, Inc.
	NOBLEHOUSEINC	Haines Company, Inc.

Pioneer Blvd

10010 Pioneer Blvd

Year	Uses	Source
2014	SUMMERHILL TECHNOLOGY CORP	EDR Digital Archive
	NOBLE HOUSE INC	EDR Digital Archive
2010	SUMMERHILL TECHNOLOGY CORP	EDR Digital Archive
	R3 SAFETY LLC	EDR Digital Archive
	CALIFORNIA F S	EDR Digital Archive
	SEALING SOLUTIONS CORP	EDR Digital Archive

FINDINGS

PIONEER BLVD

10010 PIONEER BLVD

Year	Uses	Source
2006	RENTACRATEINC	Haines Company, Inc.
	SALES INC	Haines Company, Inc.
	TECHNOLOGY CORP UNITD AMERICAN	Haines Company, Inc.
	SUMMERHILL	Haines Company, Inc.

Pioneer Blvd

10011 Pioneer Blvd

Year	Uses	Source
2014	SFADIA INC	EDR Digital Archive
2010	A & R TELECOM INC	EDR Digital Archive

PIONEER BLVD

10011 PIONEER BLVD

Year	Uses	Source
2006	MEXILEON SHOES	Haines Company, Inc.

Pioneer Blvd

10015 Pioneer Blvd

Year	Uses	Source
2014	SJS BEAUTY INC	EDR Digital Archive
	PROSYS INC	EDR Digital Archive
	IBS BEAUTY INC	EDR Digital Archive
2010	IBS BEAUTY INC	EDR Digital Archive
	PROSYS INC	EDR Digital Archive

PIONEER BLVD

10015 PIONEER BLVD

Year	Uses	Source
2006	VEGAINDUSTRIES	Haines Company, Inc.

FINDINGS

Pioneer Blvd

10016 Pioneer Blvd

Year	Uses	Source
2014	CAROLS CAFE	EDR Digital Archive
	SOURCE ONE PAYMENT SOLUTIONS	EDR Digital Archive
	DEAD AND WANTED DESIGNS	EDR Digital Archive
	A TO Z ENVIRONMENTAL SVCS	EDR Digital Archive
	GOLD COAST APPRAISALS INC	EDR Digital Archive
	MID-VALLEY ENGINEERING	EDR Digital Archive
	NINOS LATINO UNIDOS FSA	EDR Digital Archive
	A & D TRANSPORTATION LP	EDR Digital Archive
	STEVENS DAVID A C P A	EDR Digital Archive
	EL DORADO ARCHERS	EDR Digital Archive
	PIXEL PERFECT DESIGNS	EDR Digital Archive
	KOLL COMPANY LLC	EDR Digital Archive
	META MOVEMENT ENTERTAINMENT	EDR Digital Archive
	AJK COMMUNICATIONS	EDR Digital Archive
	KLONDIKE CONSTRUCTION SVCS INC	EDR Digital Archive
	SE BUILDERS INC	EDR Digital Archive
2010	DAE INSTRUMENTS & SERVICE	EDR Digital Archive
	AIR WEST MECHANICAL CNSTR INC	EDR Digital Archive
	MARXMEN	EDR Digital Archive
	SSI	EDR Digital Archive
	KNIGHT MELODY	EDR Digital Archive
	BENEFFENCE INC	EDR Digital Archive
	BAJA PIRATES LLC	EDR Digital Archive
	SAEOR LATINO MARKETING & PROMO	EDR Digital Archive
	POPA MIKE ENTERPRISES INC	EDR Digital Archive
	CON-RAK ERECTORS INC	EDR Digital Archive
	KOLL CO PICO RW	EDR Digital Archive
	PABISAN USA INC	EDR Digital Archive
	JAIME MARTIN VELARDE	EDR Digital Archive
	SCA OVREATRS ANYMUS HOWINTGRP	EDR Digital Archive
	PIXEL PERFECT DESIGNS	EDR Digital Archive
	STEVENS DAVID A C P A	EDR Digital Archive
	NINOS LATINO UNIDOS FSA	EDR Digital Archive
	SABOR LATINO PROMOTIONS & MARK	EDR Digital Archive
	SOUTHERN CAL OVRTERS ANONYMOUS	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	CAROLS CAFE	EDR Digital Archive
	KIVA ENTERPRISE	EDR Digital Archive
	SOURCE ONE PAYMENT SOLUTIONS	EDR Digital Archive

PIONEER BLVD

10016 PIONEER BLVD

Year	Uses	Source
2006	CPA SUZETTE MORENO	Haines Company, Inc.
	&ASSOCIATES TARGETELECTRIC	Haines Company, Inc.
	TEAMONE	Haines Company, Inc.
	SECURITY TEAMONE	Haines Company, Inc.
	SECURITY U 8 SINC	Haines Company, Inc.
	SERVICES	Haines Company, Inc.
	SPORTS REHBLTN STEVENSDAVIDA	Haines Company, Inc.
	PAYMENT	Haines Company, Inc.
	THE SOURCEONE	Haines Company, Inc.
	SANDWICH PLACE	Haines Company, Inc.
	GRAPHICS SABOR LATINO	Haines Company, Inc.
	DESIGN&PRINTING RED STAR	Haines Company, Inc.
	OPTIONS PIXEL PERFECT	Haines Company, Inc.
	UNIDOS PERSONNEL	Haines Company, Inc.
	a ASSOCS NINOS LATINO	Haines Company, Inc.
	MORENOSUZETTE	Haines Company, Inc.
	KOLL COMPANY	Haines Company, Inc.
	GALAXY WOOD INC	Haines Company, Inc.
	ENTERPRISES INC FORMS DESKTHE	Haines Company, Inc.
	ELIZALDE	Haines Company, Inc.
	INC DIGITAL EFX	Haines Company, Inc.
	CONRAK ERECTORS	Haines Company, Inc.
	ANONYMOUS	Haines Company, Inc.
	EATERS	Haines Company, Inc.
	HYDROMATIX COMPULSIVE	Haines Company, Inc.
	BOC EDWARDS	Haines Company, Inc.
	SECRTY	Haines Company, Inc.
	INTERNATIONAL	Haines Company, Inc.
	NETWORK INC ALLIANCE	Haines Company, Inc.
	BUILDING ADVANCED	Haines Company, Inc.
	SOLUTIONS SOUTHRN CA	Haines Company, Inc.

FINDINGS

Pioneer Blvd

10018 Pioneer Blvd

Year	Uses	Source
2014	RED STAR LLC	EDR Digital Archive
2010	RED STAR LLC	EDR Digital Archive

10019 Pioneer Blvd

Year	Uses	Source
2014	C CANRIGHT CONSTRUCTION INC	EDR Digital Archive
2010	C CANRIGHT CONSTRUCTION INC	EDR Digital Archive

PIONEER BLVD

10019 PIONEER BLVD

Year	Uses	Source
2006	HRN	Haines Company, Inc.

Pioneer Blvd

10020 Pioneer Blvd

Year	Uses	Source
2014	APPLIED BIOCODE INC	EDR Digital Archive
	MAXWELL SENSORS INC	EDR Digital Archive
	BONTEK INC	EDR Digital Archive
2010	BALLANDA CORP	EDR Digital Archive
	MAXWELL SENSORS INC	EDR Digital Archive
	APPLIED BIOCODE INC	EDR Digital Archive
	PDL CONCEPTS INC	EDR Digital Archive
	AMERICAN PACKERS & SHIPPERS	EDR Digital Archive

10023 Pioneer Blvd

Year	Uses	Source
2014	TREX COMPANY INC	EDR Digital Archive
2010	IRVINE TEL INTERNATIONAL INC	EDR Digital Archive
	LOURN CORPORATION	EDR Digital Archive

10027 Pioneer Blvd

Year	Uses	Source
2014	INDUSTRIAL CASTER & WHEEL CO	EDR Digital Archive
2010	INDUSTRIAL CASTER AND WHEEL CO	EDR Digital Archive

FINDINGS

10031 Pioneer Blvd

Year	Uses	Source
2014	JCAT BEAUTY ENTERPRISE LLC	EDR Digital Archive
	STEVE CLAUDE ASSOC INC	EDR Digital Archive
2010	STEVE CLAUDE ASSOC INC	EDR Digital Archive

PIONEER BLVD

10031 PIONEER BLVD

Year	Uses	Source
2006	SCAFABTOOL	Haines Company, Inc.

Pioneer Blvd

10032 Pioneer Blvd

Year	Uses	Source
2010	MAGNUS INDUSTRIES INC	EDR Digital Archive

10034 Pioneer Blvd

Year	Uses	Source
2010	HORNET INTERNATIONAL INC	EDR Digital Archive

10035 Pioneer Blvd

Year	Uses	Source
2014	PACIFIC AQUA TECHNOLOGIES INC	EDR Digital Archive
2010	WJ WELLBEING INC	EDR Digital Archive
	KIRIN PACKAGING INC	EDR Digital Archive

10036 Pioneer Blvd

Year	Uses	Source
2014	STREET WISE CLOTHING COMPANY	EDR Digital Archive

10038 Pioneer Blvd

Year	Uses	Source
2014	MEXILEON SHOES INC	EDR Digital Archive
	KIDEX GROUP	EDR Digital Archive

10044 Pioneer Blvd

Year	Uses	Source
2014	WEISER SECURITY SERVICES	EDR Digital Archive
2010	WEISER SECURITY SERVICES	EDR Digital Archive
	RREEF MANAGEMENT COMPANY	EDR Digital Archive

FINDINGS

S PIONEER BLVD

9912 S PIONEER BLVD

Year	Uses	Source
1995	Ell Ison Machinery	Pacific Bell
	Elllson Systems	Pacific Bell
	Sierra Concepts	Pacific Bell
1990	ELLISON MACHINERY SF SPS	Pacific Bell
1986	ELLISON MACHINERY SF SPS	Pacific Bell

9930 S PIONEER BLVD

Year	Uses	Source
1995	Victorias Treasures	Pacific Bell
	Golden Apparel	Pacific Bell
	Victorino Francisco	Pacific Bell
1990	CARRIER CLEARING SERVICES SF SPS	Pacific Bell
1986	CARRIER CLEARING SERVICES SF SPS	Pacific Bell
1981	CARRIER CLEARING SERVICES SPS	Pacific Telephone
1980	CARRIER CLEARING SERVICES	Pacific Telephone

10016 S PIONEER BLVD

Year	Uses	Source
1995	S S I	Pacific Bell
	Government Information Systems	Pacific Bell
	Carlisle Travel	Pacific Bell
	Spirax Sarco Inc	Pacific Bell
1990	BIJUR LUBRICATING CORP SANTA FE SPRINGS	Pacific Bell
	BUFFALO FORGE CO SANTA FE SPRINGS	Pacific Bell
1986	BUFFALO FORGE CO SANTA FE SPRINGS	Pacific Bell
	BIJUR LUBRICATING CORP SANTA FE SPRINGS	Pacific Bell
1981	BRADSHAW FOODSERVICE SANTA FE SPRINGS	Pacific Telephone
	THUNDERBIRD MARKETING CORP SANTA FE SPRINGS	Pacific Telephone

FINDINGS

10027 S PIONEER BLVD

Year	Uses	Source
1995	Lucky Installations	Pacific Bell
1990	D VALS SALES CO SANTA FE SPRINGS	Pacific Bell
1986	D VALS SALES CO SANTA FE SPRINGS	Pacific Bell

10031 S PIONEER BLVD

Year	Uses	Source
1995	Geswein Edmond IH	Pacific Bell
	Gesswein Paul H Co Inc	Pacific Bell
1981	WACKER CORP SF SPS	Pacific Telephone

10039 S PIONEER BLVD

Year	Uses	Source
1990	SCIENTIFIC ATLANTA ST SPS	Pacific Bell

TELEGRAPH RD

11755 TELEGRAPH RD

Year	Uses	Source
2006	EXHIBITOPTIONS	Haines Company, Inc.

11759 TELEGRAPH RD

Year	Uses	Source
2006	VANTAGEMICRO	Haines Company, Inc.

11761 TELEGRAPH RD

Year	Uses	Source
2006	STUDIO	Haines Company, Inc.
	DESIGNER DENTAL	Haines Company, Inc.

11769 TELEGRAPH RD

Year	Uses	Source
2006	AUTWASH	Haines Company, Inc.
	CONCEPT	Haines Company, Inc.

Telegraph Rd

11801 Telegraph Rd

Year	Uses	Source
2014	APTC ELECTRICALECCOM	EDR Digital Archive

Year	Uses	Source
2014	APPLIED POWER TECH CORP	EDR Digital Archive
2010	APPLIED POWER TECH CORP	EDR Digital Archive

11805 Telegraph Rd

Year	Uses	Source
2010	KIS COMPUTER CENTERS	EDR Digital Archive

TELEGRAPH RD

11805 TELEGRAPH RD

Year	Uses	Source
2006	KIS COMPUTER	Haines Company, Inc.
	CENTERS	Haines Company, Inc.
1995	KIS COMPUTER CENTERS	Pacific Bell

Telegraph Rd

11817 Telegraph Rd

Year	Uses	Source
2010	HEALTHFIRST MED GRP SNTE FE SP	EDR Digital Archive

TELEGRAPH RD

11817 TELEGRAPH RD

Year	Uses	Source
2006	HEALTH FIRST	Haines Company, Inc.

Telegraph Rd

11841 Telegraph Rd

Year	Uses	Source
2014	RELIA-TECH	EDR Digital Archive
2010	RELIA-TECH	EDR Digital Archive

TELEGRAPH RD

11841 TELEGRAPH RD

Year	Uses	Source
2006	SIMPSONADVRTSG	Haines Company, Inc.
1985	BOONE GEORGE ASSOCIATES	Pacific Bell

FINDINGS

Telegraph Rd

11845 Telegraph Rd

Year	Uses	Source
2014	TIAA CREF	EDR Digital Archive
	CUSHMAN & WAKEFIELD INC	EDR Digital Archive
2010	TIAA CREF	EDR Digital Archive

TELEGRAPH RD

11845 TELEGRAPH RD

Year	Uses	Source
2006	Ti AACREF	Haines Company, Inc.
1986	ARMSTRONG PAC CORP SANTA FE SPRINGS	Pacific Bell

11853 TELEGRAPH RD

Year	Uses	Source
2006	CHAMELEON	Haines Company, Inc.
	IMAGES INC	Haines Company, Inc.

WILLAKE

11705 WILLAKE

Year	Uses	Source
1981	WILSON FOODS CORPORATION SANTA FE SPRINGS	Pacific Telephone

Willake St

11704 Willake St

Year	Uses	Source
2014	HD SUPPLY POWER SOLUTIONS LTD	EDR Digital Archive
2010	INTRA POWER LLC	EDR Digital Archive
	HD SUPPLY UTILITIES LTD	EDR Digital Archive

WILLAKE ST

11704 WILLAKE ST

Year	Uses	Source
2006	SERVICES CO SOUTHWEST	Haines Company, Inc.
	POWER INC	Haines Company, Inc.

Year	Uses	Source
2006	COMPASS POWER	Haines Company, Inc.

Willake St

11705 Willake St

Year	Uses	Source
2014	WESTOWER COMMUNICATIONS INC	EDR Digital Archive
	WESTOWER COMMUNICATIONS INC	EDR Digital Archive
2010	OFFICE SPECIALTIES	EDR Digital Archive
	HD SUPPLY UTILITIES LTD	EDR Digital Archive

WILLAKE ST

11714 WILLAKE ST

Year	Uses	Source
1958	Goodman Benj	Pacific Telephone

11724 WILLAKE ST

Year	Uses	Source
2006	STYLE AMERICA INC	Haines Company, Inc.

Willake St

11725 Willake St

Year	Uses	Source
2014	MODERN EXPRESS INC	EDR Digital Archive
	SUNNY EXPRESS INC	EDR Digital Archive
2010	SUNNY EXPRESS INC	EDR Digital Archive
	MODERN EXPRESS INC	EDR Digital Archive

WILLAKE ST

11725 WILLAKE ST

Year	Uses	Source
2006	SUNNY EXPRESS	Haines Company, Inc.

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
10001 PIONEER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10002 PIONEER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10002 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10010 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10010 PIONEER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10011 PIONEER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10011 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10015 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10015 PIONEER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
10016 PIONEER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10016 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10016 S PIONEER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10018 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10019 PIONEER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10019 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10020 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10023 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10027 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10027 S PIONEER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10031 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
10031 PIONEER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10031 S PIONEER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10032 Pioneer Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10034 Pioneer Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10035 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10036 Pioneer Blvd	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10038 Pioneer Blvd	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10039 S PIONEER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
10044 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11704 Willake St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11704 WILLAKE ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
11705 WILLAKE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11705 Willake St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11714 WILLAKE ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11724 WILLAKE ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11725 WILLAKE ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11725 Willake St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11755 TELEGRAPH RD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11759 TELEGRAPH RD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11761 E TELEGRAPH RD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11761 TELEGRAPH RD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11769 TELEGRAPH RD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
11801 Telegraph Rd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11805 Telegraph Rd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11805 TELEGRAPH RD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11809 E TELEGRAPH RD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11817 TELEGRAPH RD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11817 Telegraph Rd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11824 E HAMDEN PL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11824 HAMDEN PL	2014, 2010, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11824 Hamden Pl	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11829 Hamden Pl	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11829 HAMDEN PL	2014, 2010, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
11841 TELEGRAPH RD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11841 Telegraph Rd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11842 Hamden Pl	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11842 HAMDEN PL	2014, 2010, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11845 E TELEGRAPH RD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11845 TELEGRAPH RD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11845 Telegraph Rd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11850 Hamden Pl	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11850 HAMDEN PL	2014, 2010, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11853 TELEGRAPH RD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11908 HAMDEN PL	2014, 2010, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
11908 Hamden Pl	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11911 Hamden Pl	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11911 HAMDEN PL	2014, 2010, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11929 HAMDEN PL	2014, 2010, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11929 Hamden Pl	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11930 Hamden Pl	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11930 HAMDEN PL	2014, 2010, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
9912 PIONEER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
9912 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
9912 S PIONEER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
9916 PIONEER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
9916 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
9926 PIONEER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
9926 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
9930 Pioneer Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
9930 PIONEER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
9930 S PIONEER BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1985, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
9947 PIONEER BLVD	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
9920 Pioneer Blvd	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

APPENDIX C

HMC
HAZARD MANAGEMENT CONSULTING

March 6, 2014

Mr. Scott Doucette
AEW Capital Management LP
601 S Figueroa Street Suite 2150
Los Angeles, CA 90017

Subject: Review of Prior Environmental Reports for the Santa Fe Springs Commerce Center 9920-10020 Pioneer Blvd Santa fe Springs California

Dear Scott,

Pursuant to your request, Hazard Management Consulting Inc. has reviewed historic environmental reports for the Site to evaluate the necessity for potential subsurface testing. It is our understanding that a prospective lender for the Site retained Partner Environmental Engineering and Science to prepare a Phase One Environmental Site Assessment as part of their due diligence activities. As part of their work, Partner reviewed the historic use of the Site consistent with the ASTM guidelines. Partner raised several issues as Recognized Environmental Conditions (RECs) with the Site regarding the historic use of the site as an oilfield. In response, Partner recommended that subsurface testing be conducted.

Issues of concern raised by Partner included the presence of seven abandoned oil wells and at least one oil field sump. We have reviewed the historic aerial photographs presented by Partner and note additional oil field sumps that were also present on Site. The oil wells were abandoned under the Division of Oil and Gas permits. When oil wells are drilled, it was common practice to excavate an area adjacent to the well, which was used for disposal of drilling fluids, mud, and petroleum products. These sumps were then typically covered with soil and left in place. Prior to construction of a building, these sumps would have to be excavated and removed as part of grading and foundation preparation. The sumps would not be geotechnically compacted to allow a building to be built.

It is our understanding that the on site buildings were constructed in the early 1970s. This was a time before stringent environmental regulations were in place but definitely when an awareness of geotechnical and foundation testing was in place. Sumps such as those found

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info@hmcinc.biz

on site would definitely need to be removed to allow buildings to be built. But, at that time, reuse of the soil from the sump on site was also very probably. The contents of the sump would be removed and the liquid material removed from the Site, as it would not allow for compaction. Soil containing petroleum would typically be worked into the fill for the project.

From our review of the Partner report, it appears that they were not provided reports from prior investigations that were conducted at the Site. Specifically, there were two prior subsurface investigations that were conducted under the oversight of the City of Santa Fe Springs Fire Department that investigated the historic oil field operations and a historic tenant that existed on Site. These reports were prepared by Environ and LFR for the former owners. The investigations were targeted in the area of the former wells and sumps and historic tenant activities. Environ reportedly advanced 9 borings and LFR drilled 27 borings with three borings advanced to groundwater. While borings were not placed in the exact location of one of the sumps adjacent to the 10020 Pioneer Building, that historic sump was in the general area of these investigations. As mentioned, it would have been common practice to remove the contents and then spread the soil with petroleum in the fill dirt for the project.

The results of the investigation conducted by Environ and LFR documented the presence of elevated concentrations of petroleum hydrocarbons and arsenic in soil, which would be consistent with oil field waste in a sump. Only trace concentrations were reported in groundwater. LFR evaluated the data and recommended that since the residuals did not pose a threat to groundwater and exposure was limited by the current development, the Fire Department approve the soil to be left in place given that it was capped with either the asphalt parking or concrete foundations. It is our understanding that the Fire Department approved the material to be left in place. No further action was required.

In addition to the petroleum hydrocarbons and arsenic in soil, the Fire Department also required the owners to conduct methane monitoring, as the buildings were adjacent to historic oil wells. Only low concentrations of methane were reported.

In conclusion, while we understand the request of Partner to conduct subsurface testing, it appears that Partner did not have the benefit of the prior testing that was conducted on Site. Furthermore, the testing was conducted under the direction and oversight of the City of Santa Fe Springs Fire Department who approved a request for No Further Action. As such, the

issues raised by Partner have already been investigated and a regulatory decision granted. We feel that the historic issues have been investigated and resolved.

We thank you for the opportunity to be of service and would be happy to address any questions you may have.

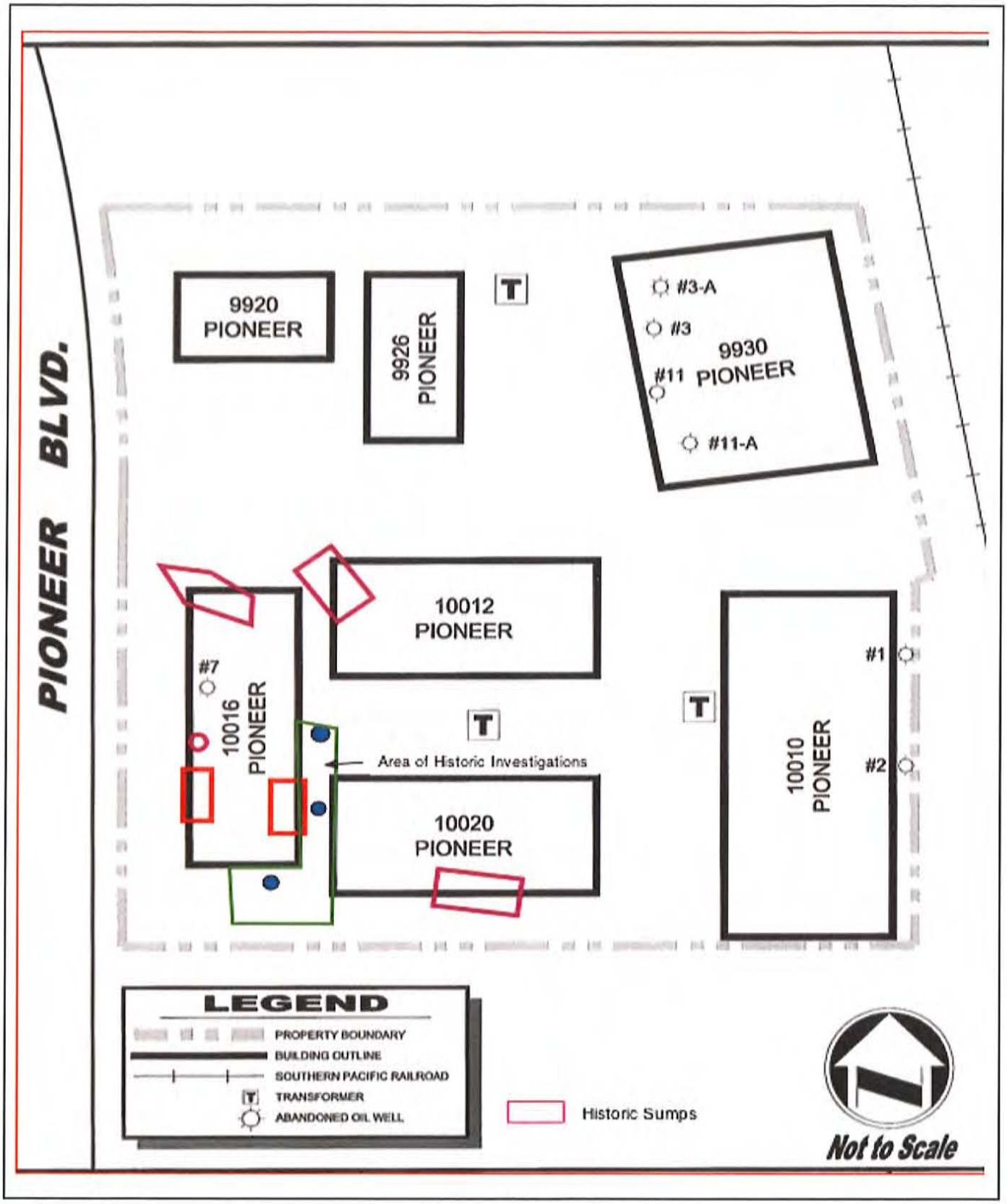
Very truly yours,
Hazard Management Consulting Inc.

Mark S. Cousineau, REA II
Principal

Enclosures

211 W. Avenida Cordoba, Suite 200 San Clemente, CA 92672 tel 949/361/3902 fax 949/361/3697 www.hmcinc.biz
info@hmcinc.biz

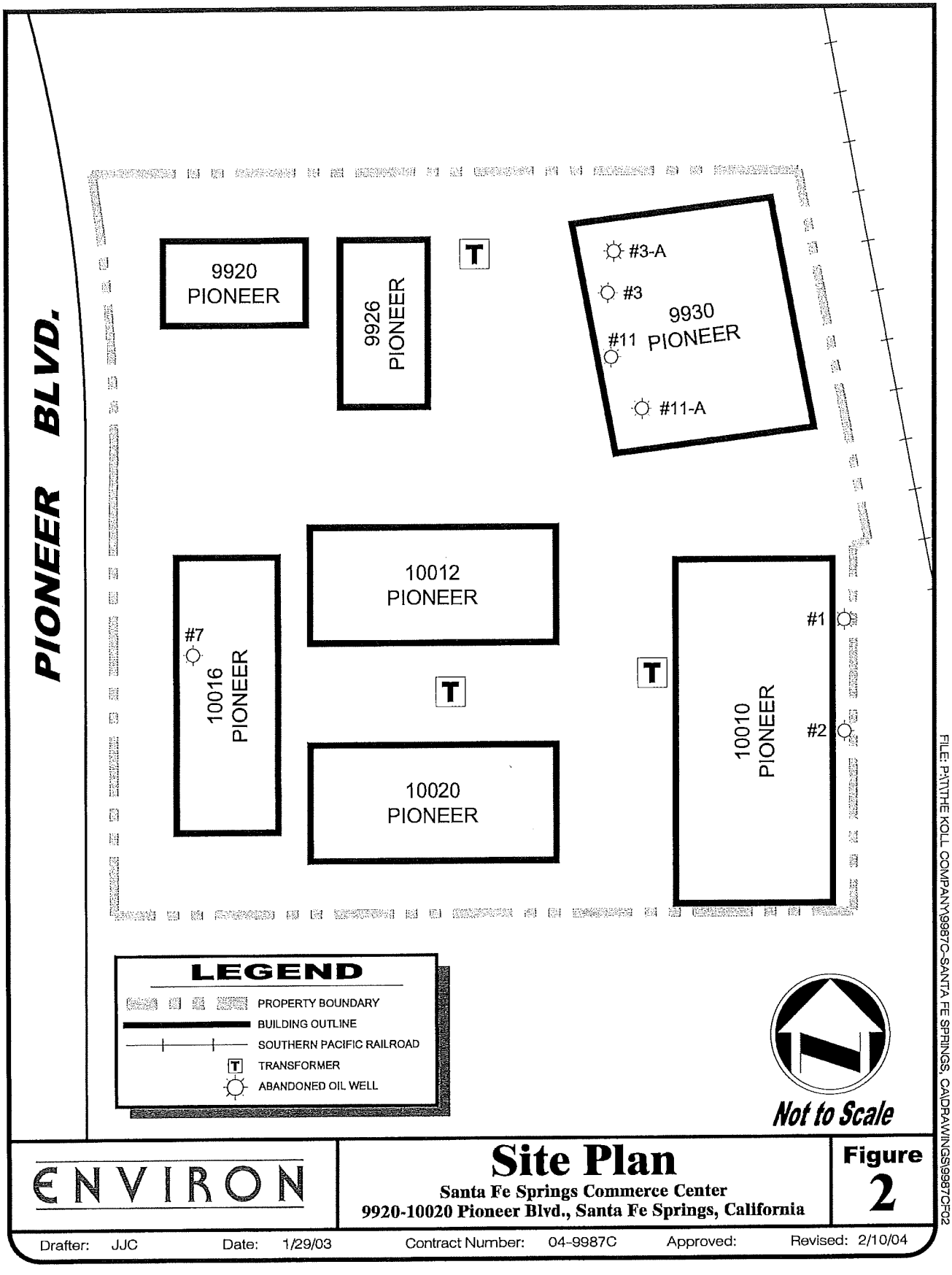
ENCLOSURES



HMC

Figure 2: Site Map

FIGURES



ENVIRON

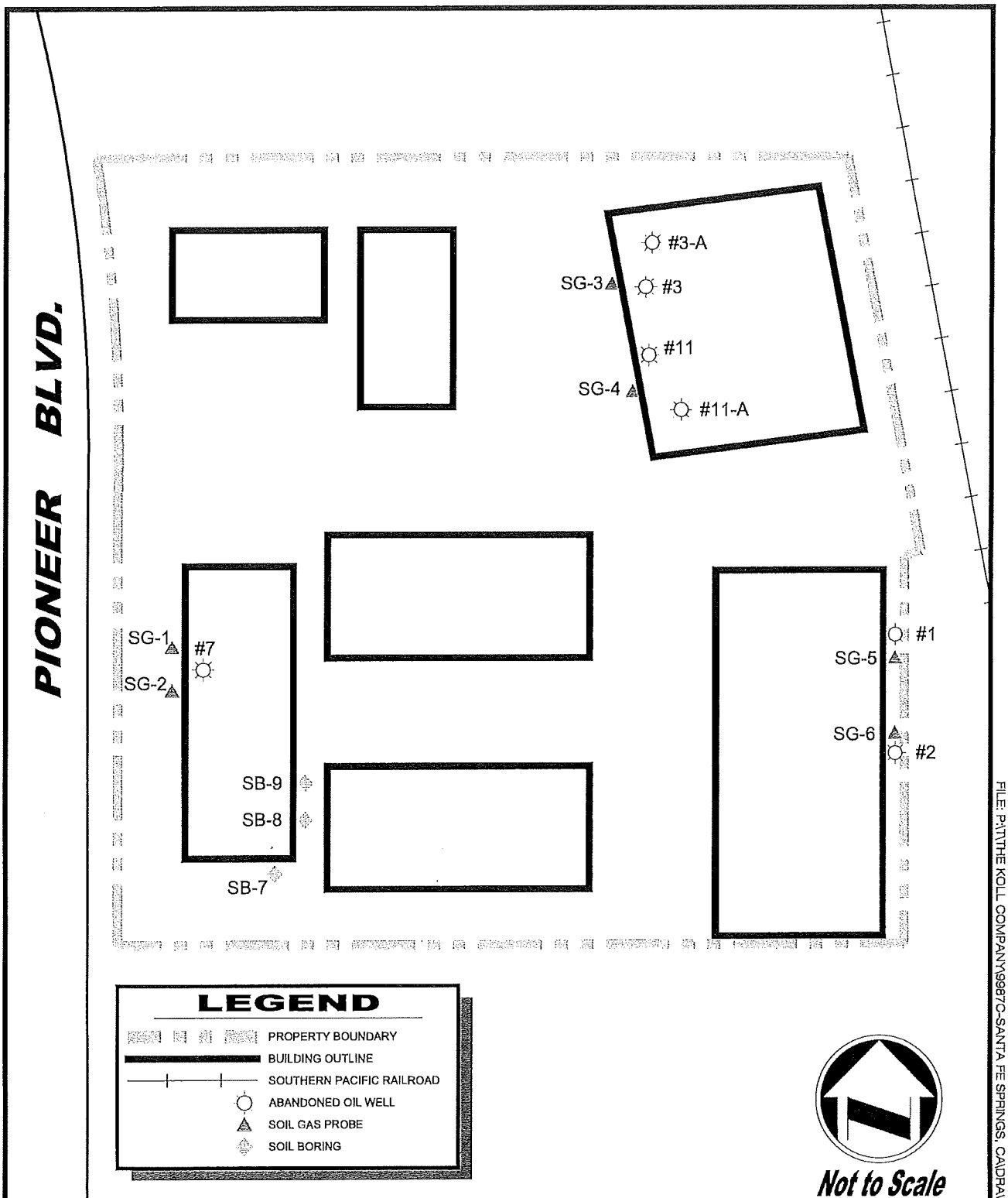
Site Plan

Santa Fe Springs Commerce Center
9920-10020 Pioneer Blvd., Santa Fe Springs, California

Figure 2

Drafter: JJC | Date: 1/29/03 | Contract Number: 04-9987C | Approved: | Revised: 2/10/04

FILE: P:\THE KOLL COMPANY\9987C-SANTA FE SPRINGS, CA\DRAWINGS\9987CF02



ENVIRON

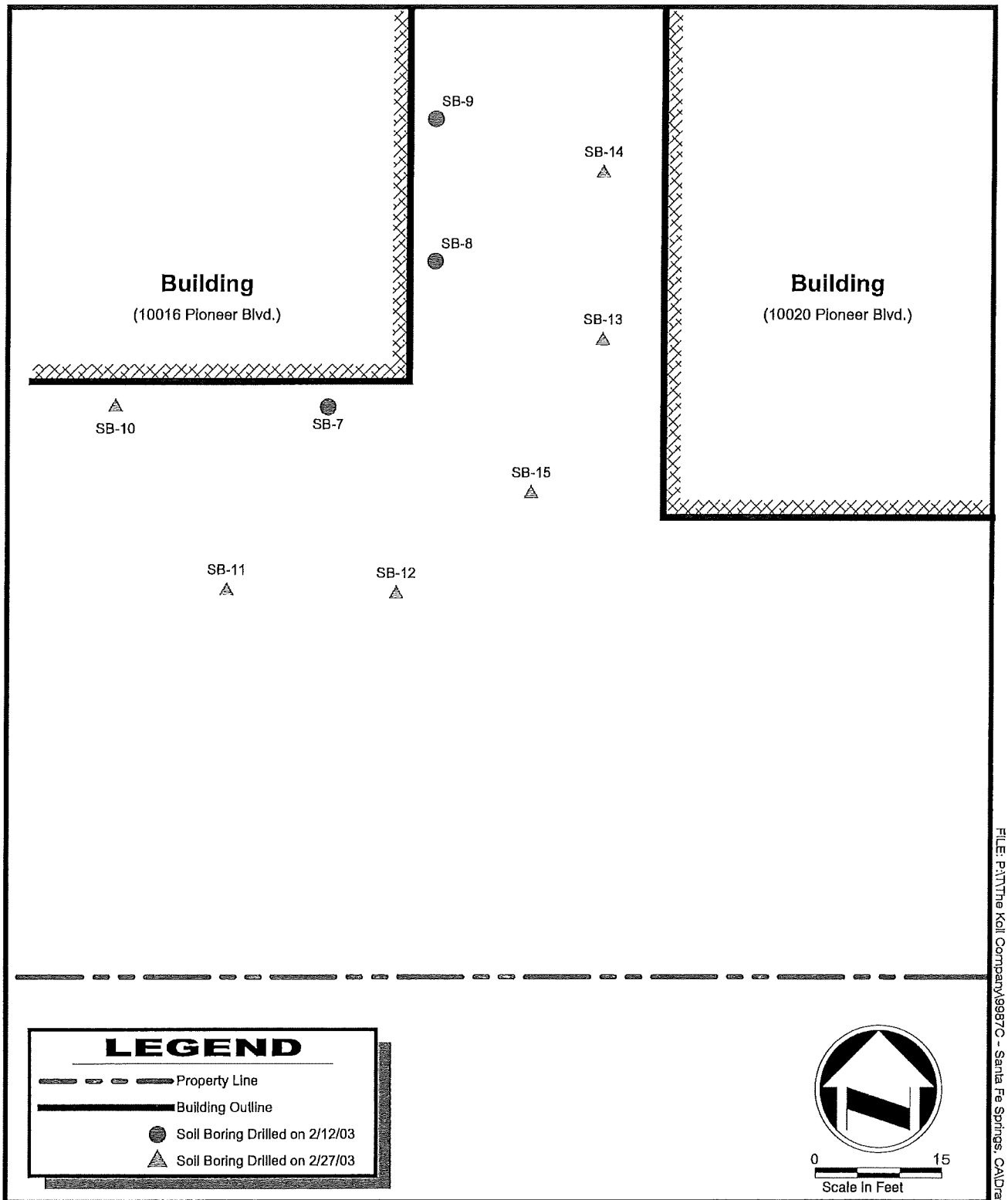
Phase II Sampling Location Plan

Santa Fe Springs Commerce Center
9920-10020 Pioneer Blvd., Santa Fe Springs, California

Figure 3

Drafter: JJC | Date: 2/13/03 | Contract Number: 04-9987C | Approved: | Revised: 2/10/04

FILE: P:\TITHE KOLL COMPANY\9987C-SANTA FE SPRINGS, CA\DRAWINGS\9987CF03



LEGEND

- Property Line
- Building Outline
- Soil Boring Drilled on 2/12/03
- Soil Boring Drilled on 2/27/03

0 15

Scale In Feet

ENVIRON

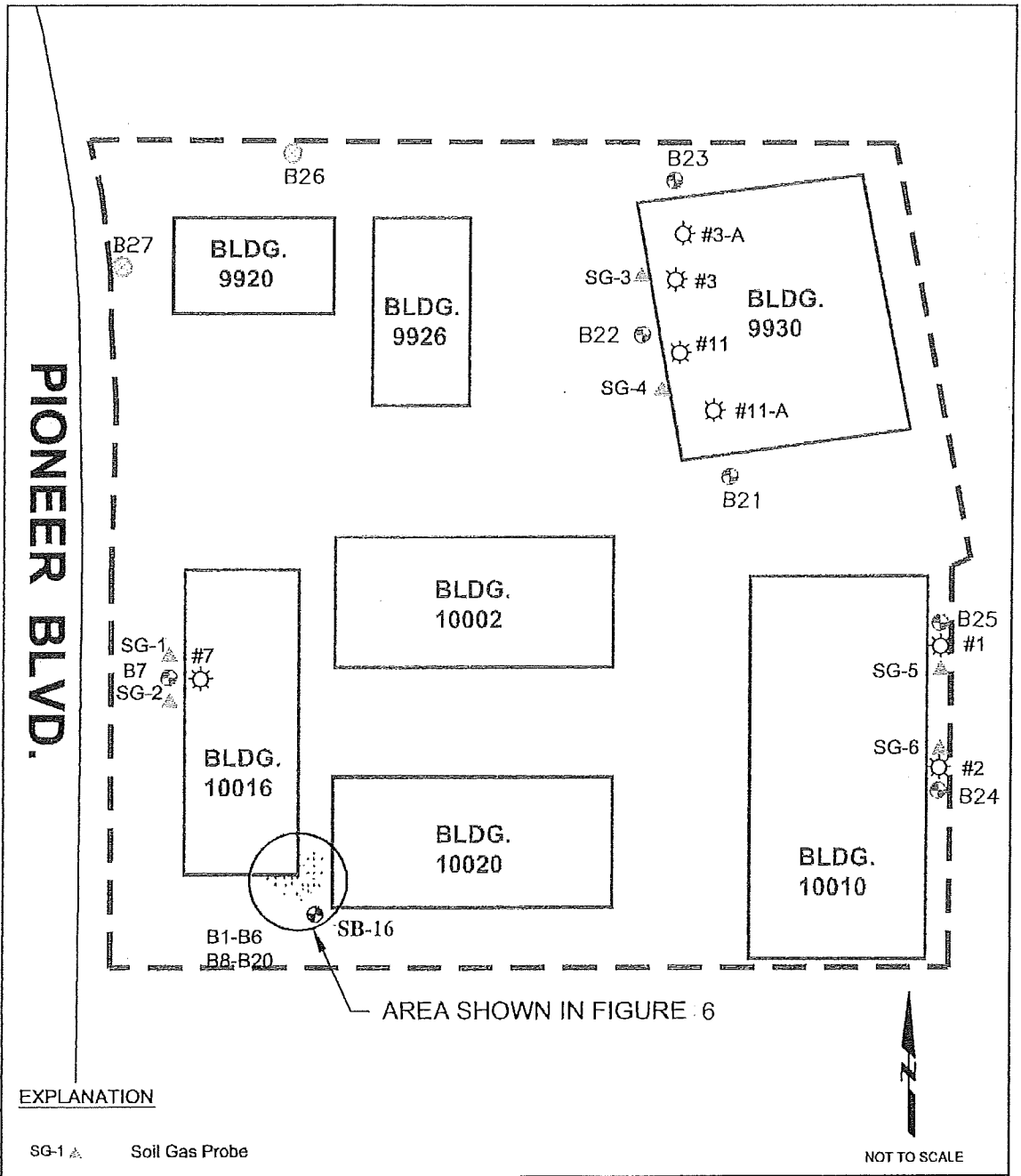
Phase II Soil Sampling Location Plan

Santa Fe Springs Commerce Center
9920-10020 Pioneer Blvd., Santa Fe Springs, California

Figure 4

Drafter: JJC Date: 2/05/04 Contract Number: 04-9987C Approved: Revised:

FILE: P:\The Koll Company\9987C - Santa Fe Springs, CA\Drawings\9987CF04



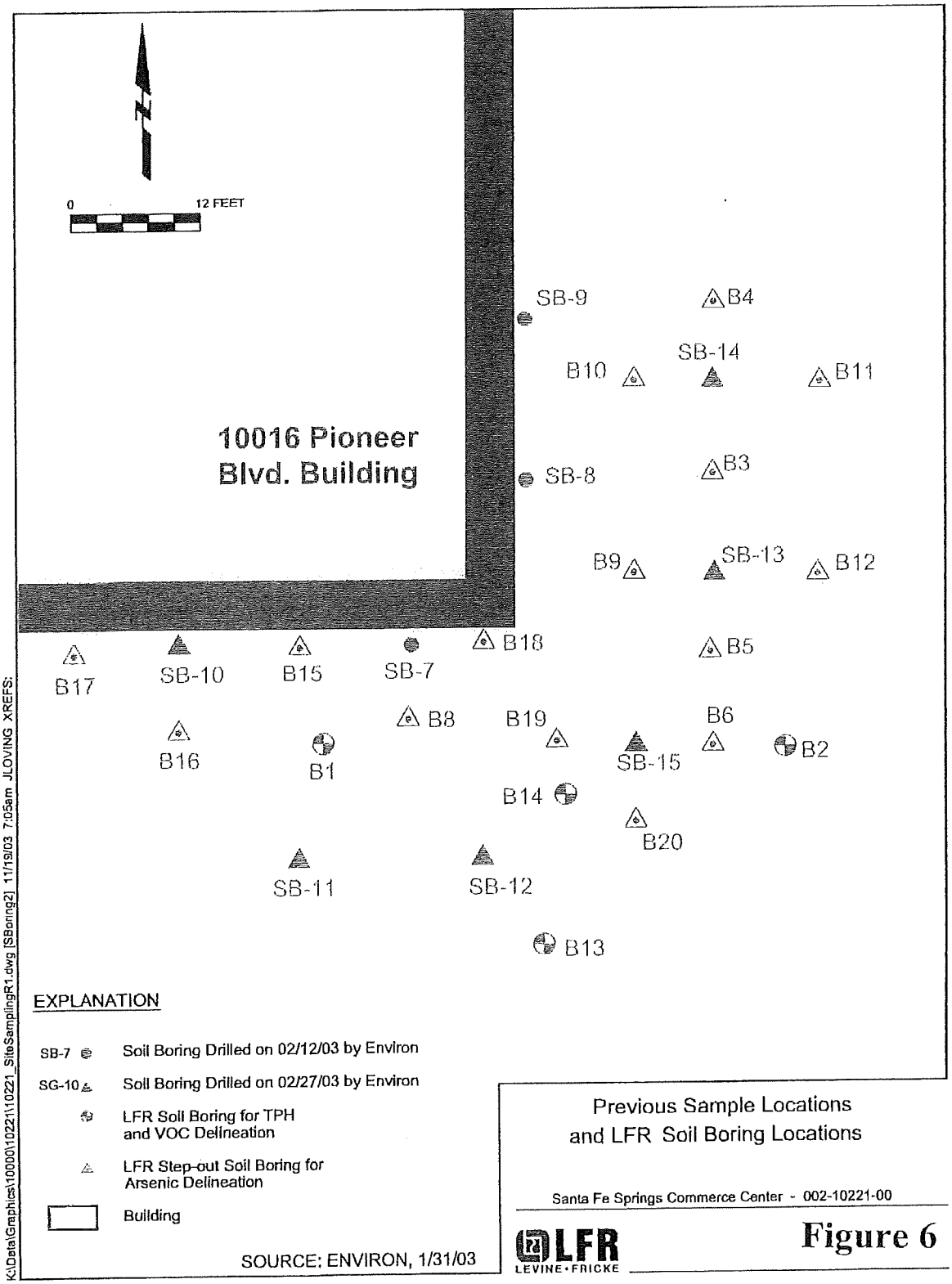
K:\Data\Graphics\10000\10221\10221_SiteSamplingR1.dwg [SBoring1] 11/18/03 7:05am JLOVING XREFS:

Site Plan Showing
Previous Sample Locations
and LFR Soil Boring Locations

Santa Fe Springs Commerce Center - 002-10221-00

LFR LEVINE • FRICKE

Figure 5



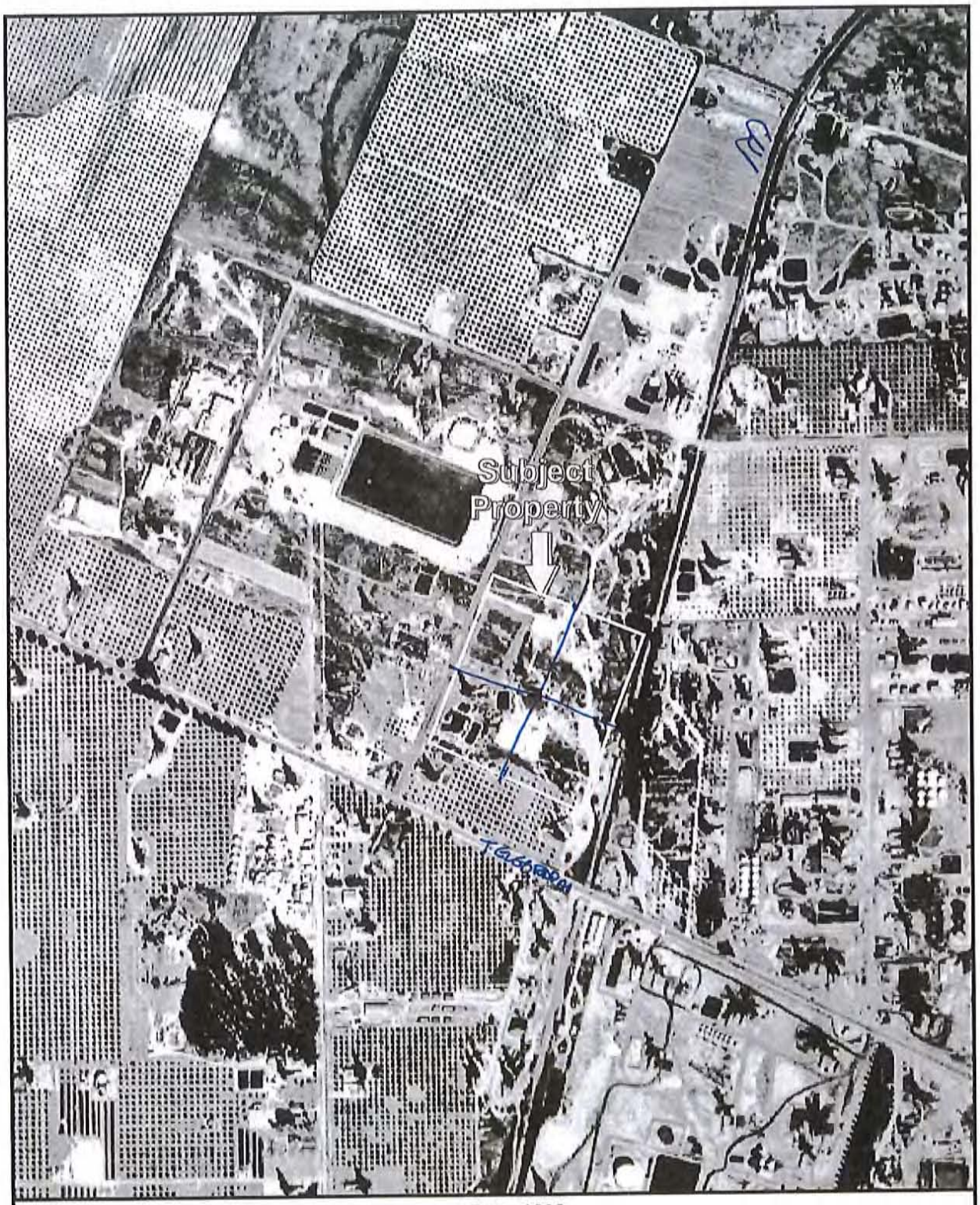
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Previous Sample Locations and LFR Soil Boring Locations

Santa Fe Springs Commerce Center - 002-10221-00

LFR LEVINE•FRICKE

Figure 6



Date: 1928

APPENDIX D: AERIAL PHOTOGRAPHS
Project No. 14-115170.3

PARTNER

Table 5
Analytical Results in Soil – VOCs
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Sample No. & Depth in Feet	Concentration (µg/kg)								
	1-4-Dichloro benzene	sec-Butyl benzene	tert-Butyl benzene	Ethyl benzene	Iso Propyl benzene	p-Iso Propyl benzene	Naphtha lene	n-Propyl benzene	1,2,4-Tri methyl benzene
ENVIRON Results (February 2003)									
SB-7-5	ND	ND	ND	ND	ND	ND	13.0	ND	ND
SB-7-10	ND	855	ND	ND	655	ND	1,210	564	ND
SB-7-15	ND	ND	ND	ND	ND	ND	17.9	ND	ND
SB-7-20	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-8-5	ND	7.4 J	ND	ND	12.5	ND	8.8 J	15.5	ND
SB-8-10	ND	848	50.9	ND	520	ND	6,680	896	5.1 J
SB-8-15	ND	27.9	ND	7.9 J	20.9	ND	220	17.2	ND
SB-8-20	ND	ND	ND	ND	ND	ND	27.5	ND	ND
SB-9-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-9-10	ND	74.3	6.2 J	ND	85.4	ND	142	142	ND
SB-9-15	ND	ND	ND	ND	ND	ND	7.0 J	ND	ND
SB-9-20	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-10-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-10-9	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-11-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-11-10	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-12-5	ND	5,000	303	4,890	4,370	55.0 J	42,400	7,370	ND
SB-12-10	ND	6,100	500 J	ND	6,440	ND	28,000	10,800	ND
SB-12-15	ND	1,840	134	ND	1,480	ND	13,400	1,500	ND
SB-12-20	ND	2,360	180	ND	1,670	ND	22,200	1,880	ND
SB-13-5	ND	10.8	ND	ND	12.1	ND	ND	10.6	ND
SB-13-9.5	ND	9.5 J	ND	ND	14.1	ND	ND	17.8	ND
SB-14-5	ND	ND	ND	ND	ND	7.7 J	17.0	ND	5.6 J
SB-14-10	ND	13.2	ND	ND	14.4	ND	ND	13.0	ND
SB-15-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-15-9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-15-24.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-15-28.5	ND	19.9	ND	ND	28.5 J	ND	549	35.0 J	ND
LFR Results (September 2003)									
B1-10	ND	ND	ND	ND	ND	ND	13,700	ND	ND
B2-35	ND	ND	ND	ND	ND	ND	1,160	ND	ND
B7-32	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-15	ND	ND	ND	ND	ND	3,160J	ND	18,400	ND
B13-55	ND	ND	ND	ND	ND	ND	ND	ND	ND

B14-10	13,900	2,160J	ND	2,150J	ND	ND	12,400	3,150	ND
B21-10	ND	ND	ND	ND	ND	ND	ND	ND	ND
B22-10	ND	ND	ND	ND	ND	ND	ND	ND	ND
B23-10	ND	ND	ND	ND	ND	ND	ND	ND	ND
B24-40	ND	ND	ND	ND	ND	ND	ND	ND	ND
B25-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
LFR Results (January 2004)									
SB16-15.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB16-40	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB16-60	ND	ND	ND	ND	ND	ND	ND	ND	ND
Residential PRG	NE	NE	NE	8,900	NE	ND	NE	NE	52,000
Industrial PRG	NE	NE	NE	20,000	NE	ND	NE	NE	170,000
City: Upper 5 ft	NE	NE	NE	NE	NE	ND	NE	NE	NE
City: >5 ft (LARWQCB)	NE	NE	NE	700*	NE	ND	NE	NE	NE

Notes:

1. VOCs = Volatile organic compounds; analyzed using EPA Method 8260B.
2. Sample depth is in feet below ground surface.
2. µg/kg = Microgram per kilogram.
3. ENVIRON samples were analyzed by American Environmental Testing Lab; LFR's samples were analyzed by Associated Labs.
4. ND = Not detected.
5. J = Estimated value.
6. Also reported by the laboratory for Sample SB-12-5 were 3,240 µg/kg of n-butylbenzene and 310 µg/kg of 1,2,4-trimethylbenzene.
7. m,p-xylenes were reported by the laboratory for some of the samples; the highest reported concentration was 79.0 J for Sample SB-12-5.
8. PRG = Preliminary Remediation Goal.
9. City = City of Santa Fe Springs's Soil Screening Guidelines and Site Mitigation Procedures for Industrial Sites, dated April 24, 2002.
10. LARWQCB = Interim Site Assessment and Cleanup Guidebook, dated May 1996, developed by the California Regional Water Quality Control Board – Los Angeles Region. The City recommends that these guidelines be used for soil at depths of greater than 5 feet below ground surface.
11. NE = Not established.

* The 700 µg/kg concentration was obtained from the LARWQCB Guidebook using the conservative assumptions of sand lithology and depth to ground water at 20 feet below the soil sample. This value would be 2,000 µg/kg for a silt lithology.

Table 6
Analytical Results in Soil – TPH
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Sample No. & Depth in Feet	Concentration (mg/kg)			
	TPH-G C_4-C_{12}	TPH-D C_{13}-C_{22}	TPH-H_l C_{23}-C_{32}	TPH-H_h C_{33}-C_{40}
ENVIRON Results (February 2003)				
SB-7-10	392	4,790	3,020	1,270
SB-7-15	0.598 J	ND	ND	ND
SB-8-5	36.9 J	287	785	430
SB-8-10	565	3,950	1,970	873
SB-10-5	ND	ND	42.4	11.3
SB-10-9	ND	225	1,150	773
SB-11-5	ND	202	601	319
SB-11-10	ND	345	901	464
SB-12-5	2,520	21,500	10,100	2,620
SB-12-10	2,100	21,700	12,200	3,570
SB-12-15	570	3,120	1,250	191
SB-12-20	689	3,690	1,520	240
SB-13-5	4.07	174	547	345
SB-13-9.5	3.51	125	982	494
SB-14-5	2.33	757	1,230	468
SB-14-10	3.11	143	656	414
SB-15-5	0.500 J	20.6	54.7	22.3
SB-15-9.5	ND	170	599	361
SB-15-24.5	ND	ND	ND	ND
SB-15-28.5	167	3,120	1,810	631
LFR Results (September 2003)				
	TPH-G C_6-C_{10}	TPH-D C_{10}-C_{22}	TPH-H_l C_{22}-C_{36}	TPH-H_h
B1-10	ND	125	110	--
B1-35	ND	ND	ND	--
B1-38	ND	ND	ND	--
B2-35	ND	986	301	--
B2-45	ND	ND	ND	--
B7-15	ND	ND	ND	--
B7-32	ND	ND	ND	--
B13-15	1,900	5,100	4,400	--
B13-55	ND	ND	ND	--
B14-10	35	42	62	--
B14-30	ND	ND	ND	--
B21-10	14	3	ND	--
B21-30	ND	ND	ND	--
B22-10	ND	3.0	ND	--

Sample No. & Depth in Feet	Concentration (mg/kg)			
	TPH-G C_4-C_{12}	TPH-D C_{13}-C_{22}	TPH-H_l C_{23}-C_{32}	TPH-H_h C_{33}-C_{40}
B22-35	ND	3.8	ND	--
B23-10	ND	ND	ND	--
B23-25	ND	ND	ND	--
B23-28	14	3.4	ND	--
B24-15	ND	3.2	ND	--
B24-40	ND	ND	ND	--
B24-60	ND	ND	ND	--
B25-5	ND	3,200	21,200	--
B25-40	ND	ND	ND	--
LFR Results (January 2004)				
	TPH-G Gasoline Range	TPH-D C_{12}-C_{28}	TPH-H_l C_{28}-C_{40}	TPH-H_h
SB16-15.5	ND	ND	ND	--
SB16-40	ND	ND	ND	--
SB16-60	ND	ND	ND	--
Residential PRG	NE	NE	NE	NE
Industrial PRG	NE	NE	NE	NE
City: Upper 5 ft	100	1,000	10,000	NE
City: >5 ft (LARWQCB)	100	100	1,000	NE

Notes:

1. TPH = Total petroleum hydrocarbons, analyzed using EPA Method 8015 modified for carbon chain: TPH-G, as gasoline (carbon ranges C_4-C_{12} for the ENVIRON results and C_6-C_{10} for the LFR results); TPH-D, as diesel fuel (C_{13}-C_{22} for the ENVIRON results and C_{10}-C_{22} for the LFR results); TPH-H_l, as heavy hydrocarbons (C_{23}-C_{32} for the ENVIRON results and C_{22}-C_{36} for the LFR results; and TPH-H_h, as heavy hydrocarbons (C_{33}-C_{40} for the ENVIRON results).
2. Sample depth is in feet below ground surface.
3. mg/kg = Milligram per kilogram.
4. ENVIRON samples were analyzed by American Environmental Testing Lab; LFR's samples were analyzed by Associated Labs.
5. ND = Not detected.
6. J = Estimated value.
7. "--" = Not analyzed.
8. NE = Not established.
9. PRG = Preliminary Remediation Goal.
10. City = City of Santa Fe Springs's Soil Screening Guidelines and Site Mitigation Procedures for Industrial Sites, dated April 24, 2002.
11. LARWQCB = Interim Site Assessment and Cleanup Guidebook, dated May 1996, developed by the California Regional Water Quality Control Board – Los Angeles Region. The City recommends that these guidelines be used for soil at depths of greater than 5 feet below ground surface.

Table 7
Analytical Results in Soil – PAHs
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Sample No. & Depth in Feet	Concentration (mg/kg)						
	Benzo(b) fluoran thene	Anthra cene	Fluoran thene	Fluorene	Naphtha lene	Phenan threne	Pyrene
ENVIRON Results (February 2003)							
SB-7-10	ND	ND	0.040	ND	0.731	1.42	0.106
SB-8-10	0.416	0.276	0.071	5.77	5.30	2.96	0.193
SB-12-5	2.29	ND	0.269	4.10	23.6	8.95	0.307
SB-12-10	2.51	ND	0.137 J	2.22	9.44	5.91	0.196 J
LFR Results (September 2003)							
B13-10	ND	ND	ND	1.67	5.9	2.2	ND
B13-5	ND	ND	ND	0.159	0.733	ND	ND
B14-10	ND	ND	ND	0.689	1.46	1.05	ND
B14-5	ND	ND	ND	1.75	ND	ND	ND
LFR Results (January 2004)							
SB16-5.5	ND	ND	ND	ND	ND	ND	ND
SB16-10.5	ND	ND	ND	ND	ND	ND	ND
SB16-29.5	ND	ND	ND	ND	ND	ND	ND
Residential PRG	0.62	22,000	2,300	2,700	56	NE	2,300
Industrial PRG	2.1	100,000	22,000	26,000	190	NE	29,000

Notes:

1. PAHs = Polynuclear aromatic hydrocarbons; analyzed using EPA Method 8310.
2. Sample depth is in feet below ground surface.
3. mg/kg = Milligram per kilogram.
4. ENVIRON samples were analyzed by American Environmental Testing Lab; LFR's samples were analyzed by Associated Labs.
5. ND = Not detected.
6. J = Estimated value.
7. Also reported by the laboratory for Sample SB-12-5 were benzo(a)anthracene 5.72 mg/kg; benzo(a)pyrene 0.430 mg/kg; benzo(k)fluoranthene 0.212 mg/kg; chrysene 14.6 mg/kg; indeno(1,2,3-cd)pyrene 1.72 mg/kg; and acenaphthene 1.05 mg/kg.
8. Also reported by the laboratory for Sample SB-12-10 were benzo(a)anthracene 2.82 mg/kg; benzo(a)pyrene 0.294 mg/kg; chrysene 8.51 mg/kg; and acenaphthene 0.594 mg/kg.
9. NE = Not established.
10. PRG = Preliminary Remediation Goal.
11. City = City of Santa Fe Springs, Certified Unified Program Agency's Soil Screening Guidelines and Site Mitigation Procedures for Industrial Sites, dated April 24, 2002.
12. LARWQCB = Interim Site Assessment and Cleanup Guidebook, dated May 1996, developed by the California Regional Water Quality Control Board – Los Angeles Region. The City recommends that these guidelines be used for soil at depths of greater than 5 feet below ground surface.

Table 8
Analytical Results in Soil – Arsenic
Santa Fe Springs Commerce Center
10016 Pioneer Blvd.
Santa Fe Springs, CA 90670

Sample No. & Depth in Feet	Arsenic (mg/kg)	Arsenic DI Extract (mg/l)
ENVIRON Results (February 2003)		
SB-7-5	66.5	--
SB-7-10	ND	--
SB-8-10	ND	--
SB-8-10	ND	--
SB-9-5	ND	--
SB-9-10	ND	--
SB-10-5	5.25J	--
SB-11-5	ND	--
SB-12-5	ND	--
SB-12-10	ND	--
SB-12-20	ND	--
SB-13-5	12.5	--
SB-14-5	28.6	--
SB-15-5	33.9	--
LFR Results (September 2003)		
B3-5	4.8	--
B4-5	19.4	--
B4-10	10.7	--
B5-5	43	<0.05
B5-10	4.65	--
B6-5	5.17	--
B8-5	8.12	--
B9-5	6.06	--
B10-5	20	--
B11-5	12.3	--
B12-5	9.42	--
B15-5	16	--
B16-5	3.84	--
B17-5	4.02	--
B18-5	24.8	0.147
B18-10	4.46	--
B19-5	5.42	--
B20-5	7.41	--
B26-5	5.77	--
B27-5	8.2	--

Notes:

1. Arsenic analyses were performed using EPA Method 6010B.
2. Arsenic deionized water Waste Extraction Test (WET) analyses were performed using Method 6010/DI.
3. Sample depth is in feet below ground surface.
4. mg/kg = Milligram per kilogram
5. mg/l = Milligram per liter.
6. ENVIRON samples were analyzed by American Environmental Testing Lab; LFR's samples were analyzed by Associated Labs.
7. "--" = Not analyzed.
8. ND = Not detected.

Table 9
Analytical Results in Soil – Metals, Cyanide, and pH
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Metal	Concentration (mg/kg)								
	SB-7-5	SB-7-10	SB-8-5	SB-8-10	SB-9-5	SB-9-10	SB-12-10	Residential PRG	Industrial PRG
ENVIRON Results (February 2003)									
Antimony	ND	ND	ND	ND	ND	ND	ND	31	410
Arsenic	66.5	ND	ND	ND	ND	ND	ND	22/0.39*	260/1.6*
Barium	158	50.5	134	52.5	110	47.1	69.5	5,400	67,000
Beryllium	ND	ND	ND	ND	ND	ND	ND	150	1,900
Cadmium	ND	ND	ND	ND	ND	ND	ND	37	450
Chromium (Total)	16.2	8.20	13.2	8.10	15.0	7.60	11.1	210	450
Chromium VI (EPA Method 7196A)	ND	NA	ND	NA	NA	NA	NA	30	64
Cobalt	7.30	5.70	7.00	5.70	7.70	5.30	7.30	900	1,900
Copper	28.0	9.60	18.5	9.0	16.5	9.30	11.9	3,100	41,000
Lead	65.0	3.90J	20.4	3.10 J	28.4	ND	2.75 J	400	750
Mercury (EPA 7471)	ND	ND	ND	ND	ND	ND	ND	23 +	310 +
Molybdenum	ND	ND	ND	ND	ND	ND	ND	390	5,100
Nickel	11.9	7.50	108	7.30	11.3	7.30	10.8	1,600	20,000
Selenium	ND	ND	ND	ND	ND	ND	ND	390	5,100
Silver	ND	ND	ND	ND	ND	ND	ND	390	5,100
Thallium	ND	ND	ND	ND	ND	ND	ND	5.2	67
Vanadium	27.1	18.1	25.1	18.3	27.3	16.6	25.6	550	7,200
Zinc	86.5	27.1	62.5	27.6	49.8	25.7	37.3	23,000	100,000
Cyanide	ND	NA	ND	NA	NA	NA	NA	1,200/11**	12,000/35 **
pH	8.30	7.74	8.40	9.27	8.66	8.55	NA	NE	NE

Notes:
1. Metal analyses were performed using EPA Methods 6010B/7000, unless noted otherwise. Cyanide was analyzed using EPA Method 9014. pH was analyzed using EPA Method 9045C.
2. Sample depth is in feet below ground surface.
3. mg/kg = Milligram per kilogram.
4. ENVIRON samples were analyzed by American Environmental Testing Lab.
5. PRG = Preliminary Remediation Goal. The given values are from the latest update as of October 1, 2002.
6. ND = Not detected, at the detection limits shown in Appendix A.
7. NA = Not analyzed.
8. J = Estimated value.
9. NE = Not established.

* The PRGs for arsenic are for noncancer point and cancer point, respectively.

\+ The PRGs for mercury are for mercury chloride.

** The PRGs for cyanide are for free cyanide and hydrogen cyanide, respectively.

Table 10
Analytical Results in Ground Water – VOCs and TPH
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Sample No.	VOC Concentration (µg/l)		TPH Concentration (mg/l)		
	1,1,1-Trichloroethane	1,1-Dichloroethene	Gasoline Range	TPH-D C_{12}-C_{28}	TPH-H C_{28}-C_{40}
LFR Results (September 2003)					
B2	1.4J	1.3J	--	--	--
B24	ND	ND	--	--	--
LFR Results (January 2004)					
SB16	1.1	ND	ND	ND	ND
Primary MCL	200	6	NE	NE	NE

Notes:

1. VOCs = Volatile organic compounds; analyzed using EPA Method 8260B.
2. µg/l = Microgram per liter.
3. mg/l = Milligram per liter.
4. LFR's samples were analyzed by Associated Labs.
5. "--" = Not analyzed.
6. ND = Not detected.
7. J = Estimated value.
8. MCL = Maximum contaminant level, as established by the California Department of Health Services for drinking water.
9. NE = Not established.

THE BROOKHOLLOW GROUP

SANTA FE SPRINGS - A060
9920-10020 Pioneer Boulevard
Santa Fe Spings, CA 90670
157,669 SF

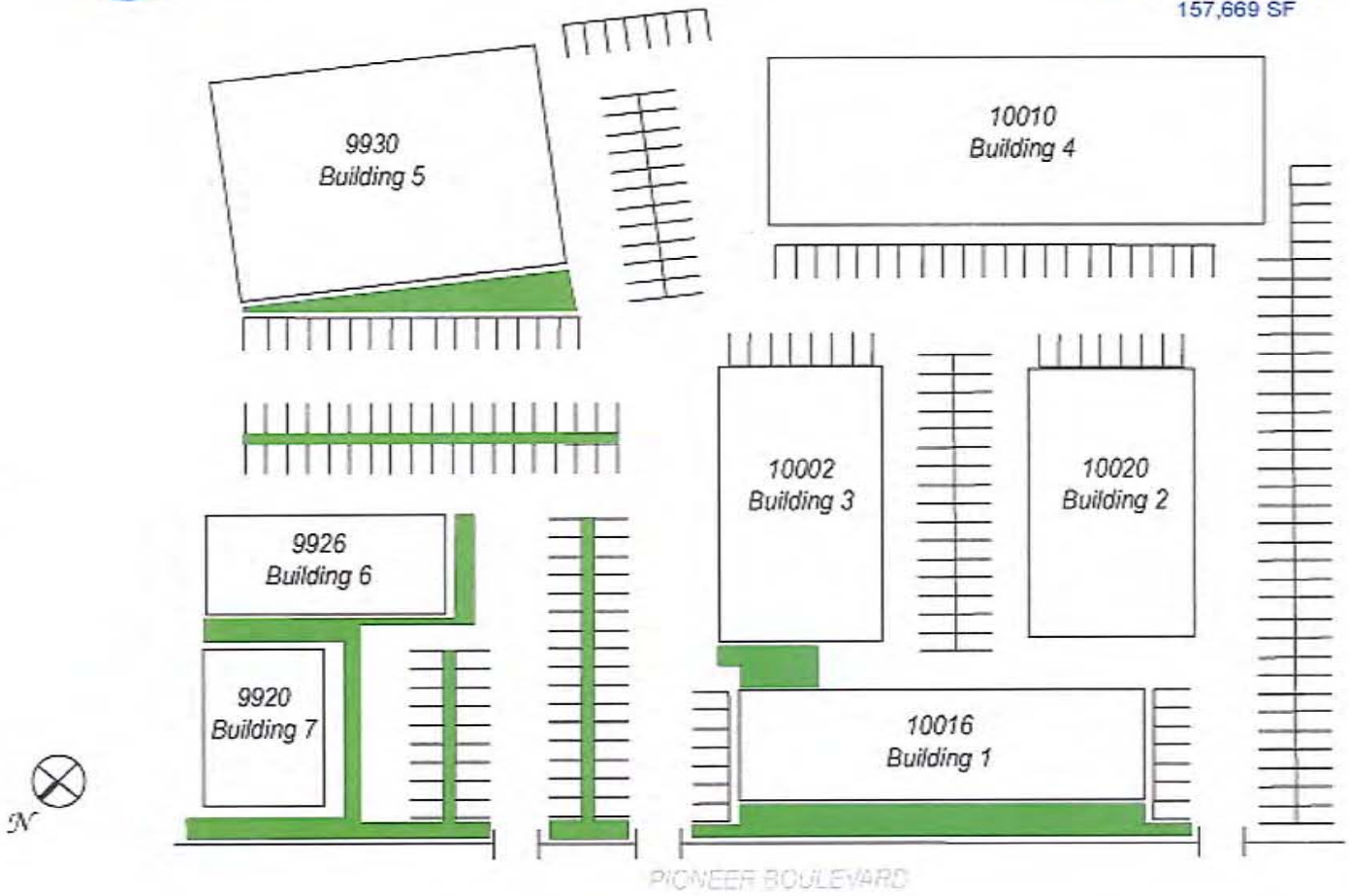


Table 4
Soil Gas Survey Results
Santa Fe Springs Commerce Center
9920-10020 Pioneer Boulevard
Santa Fe Springs, California 90670

Probe Number	Sample Depth (ft bgs[2])	Date	Time of Day (a.m.)	Maximum PID[3] Reading at Surface of Probe (ppm[4])	Concentration[1]				
					Methane (%LEL[5])	Oxygen (%VOL[6])	Carbon Dioxide (% VOL)	Hydrogen Sulfide (ppm)	PID (ppm)
SG-1	5	01/24/03	8:45	--	0	12.4	7.6	0	0
		02/03/03	10:13	0	0	11	8.2	0	0
SG-2	10	01/24/03	8:58	15	0	10.1	8.2	0	0
		02/03/03	10:15	0	0	13.2	5.5	0	0
SG-3	5	01/24/03	9:20	18	0	10.6	10.6	0	0
		02/03/03	10:32	0	0	13.9	7.7	0	0
SG-4	10	01/24/03	9:40	41	0	11.7	9.2	0	0
		02/03/03	10:37	0	0	12.7	9.8	0	3.5
SG-5	5	01/24/03	10:05	71	0	10.3	9.9	0	0
		02/03/03	10:52	0	0	10.6	9	0	0
SG-6	10	01/24/03	9:52	14	5	3.8	14.9	0	0
		02/03/03	10:46	0	2	10.7	9.8	0	0

Notes:

1. Methane, oxygen, carbon dioxide, and hydrogen sulfide were measured using an RKI Instruments Eagle LEL 4-Gas Meter.
2. ft bgs: Feet below ground surface
3. PID: Photolonization detector
4. ppm: Parts per million
5. %LEL: Percent of the lower explosive limit
6. %VOL: Percent by volume

HMC
HAZARD MANAGEMENT CONSULTING

June 26, 2018

Mr. Scott Doucette
AEW Capital Management LP
601 S Figueroa Street Suite 2150
Los Angeles, CA 90017

Subject: Evaluation of Environmental Status of the Santa Fe Springs Commerce Center 9920-10020 Pioneer Blvd Santa fe Springs California (Site

Dear Scott,

Hazard Management Consulting Inc. previously reviewed historic environmental reports for the Site to evaluate the necessity for potential subsurface testing on your behalf in 2014. At that time, a prospective lender retained Partner Environmental Engineering and Science to prepare a Phase One Environmental Site Assessment as part of their due diligence activities. As part of their work, Partner reviewed the historic use of the Site consistent with the ASTM guidelines. Partner raised several issues as Recognized Environmental Conditions (RECs) with the Site regarding the historic use of the site as an oilfield. It is our understanding that you are now considering redeveloping the Site with your partner, Brookhollow Group. As part of that effort, you have asked us to review the condition of the Site and discuss the potential environmental issues you will have to consider as part of redevelopment.

BACKGROUND

Issues of concern raised by Partner included the presence of seven abandoned oil wells and at least one oil field sump. We have reviewed the historic aerial photographs presented by Partner and note additional oil field sumps that were also present on Site. The oil wells were abandoned under the Division of Oil and Gas permits. When oil wells are drilled, it was common practice to excavate an area adjacent to the well, which was used for disposal of drilling fluids, mud, and petroleum products. These sumps were then typically covered with soil and left in place. Prior to construction of a building, these sumps would have to be

excavated and removed as part of grading and foundation preparation. The sumps would not be geotechnically compacted to allow a building to be built

It is our understanding that the on site buildings were constructed in the early 1970s. This was a time before stringent environmental regulations were in place but definitely when an awareness of geotechnical and foundation testing was in place. Sumps such as those found on site would definitely need to be removed to allow buildings to be built. But, at that time, reuse of the soil from the sump on site was also very probable. The contents of the sump would have likely been processed and the liquid material removed from the Site, as it would not allow for compaction. Soil containing petroleum would typically be worked into the fill for the project.

From our review of the Partner report, it appears that they were not provided reports from prior investigations that were conducted at the Site. Specifically, there were two prior subsurface investigations that were conducted under the oversight of the City of Santa Fe Springs Fire Department that investigated the historic oil field operations and a historic tenant that existed on Site. These reports were prepared by Environ and LFR for the former owners. The investigations were focussed in the area of the former wells and sumps and historic tenant activities. Environ reportedly advanced 9 borings and LFR drilled 27 borings with three borings advanced to groundwater. While borings were not placed in the exact location of one of the sumps adjacent to the 10020 Pioneer Building, that historic sump was in the general area of these investigations. As mentioned, it would have been common practice to remove the contents and then spread the soil with petroleum in the fill dirt for the project.

The results of the investigation conducted by Environ and LFR documented the presence of elevated concentrations of petroleum hydrocarbons and arsenic in soil, which would be consistent with oil field waste in a sump. Only trace concentrations were reported in groundwater. LFR evaluated the data and recommended that since the residuals did not pose a threat to groundwater and exposure was limited by the current development, the Fire Department approve the soil to be left in place given that it was capped with either the asphalt parking or concrete foundations. It is our understanding that the Fire Department approved the material to be left in place. No further action was required.

In addition to the petroleum hydrocarbons and arsenic in soil, the Fire Department also required the owners to conduct methane monitoring, as the buildings were adjacent to historic oil wells. Only low concentrations of methane were reported. No action is currently required on your part if the Site stays in its current configuration.

EVALUATION OF REDEVELOPMENT ISSUES

If you were to consider redevelopment of the Site, there are several issues that you would need to take into consideration. They include:

- Potential reabandonment of the abandoned oil wells to current standards;
- Preparation and implementation of a Soil Management Plan;
- Potential surprises that could be encountered during grading;
- Potential methane mitigation systems for future construction.

The following presents a summary of each of these issues and preliminary cost estimate.

Potential Reabandonment of the abandoned oil wells to current standards

The standards for abandonment of oil wells have evolved over the last 50 years as oil well science as well as an understanding of local conditions has evolved. These changes are primarily focused on preventing methane from migrating up the well casing and into the environment where potential explosions could occur. Currently, if you want to redevelop a Site with abandoned oil wells, you need to undergo a "Site Plan Review" in accordance with the California Division of Oil and Gas (DOG). This requires a petroleum engineer review the abandonment records and evaluate what, if any, additional abandonment procedures may be necessary. This could include removal and replacement of certain sections of the abandoned well to complete reabandonment. The costs for the well review is typically a couple thousand dollars per well. The costs to reabandon a well are highly specific to the well and could range from $25,000 to hundreds of thousands of dollars. There have been cases where a well can not meet current abandonment standards. In such an event, the well can not be built over and a set back of ~15' in all directions is requires to allow a redevelopment rig access to attempt redevelopment in the future.

There are seven abandoned wells on Site. For preliminary planning purposes, we would recommend you consider a budget of $25,000 for the Site Plan Review and $50,000 / well to abandon to current standards. This would include conducting a methane gas survey at the Site. Upon completion of the Site Plan Review, you would better understand what, if any work is required and refine these estimates.

Preparation and implementation of a Soil Management Plan

As noted, the previous Phase II testing identified several areas with hydrocarbons present in soil. While the Fire Department has approved this soil to remain in place, that was under the conditions that the Site stayed in its then configuration. As you would be grading the Site for future pads, drainage and utilities, it is very likely that you would be disturbing this residually impacted soil, which would require special handling. It would be the goal of the SMP to allow all residuals to remain on Site. The costs to prepare the SMP would be an estimated $5,000. Implementation would include a consultant on Site full time during grading. A rough cost of $100,000 should be budgeted for SMP implementation.

Potential surprises that could be encountered during grading

While the results of the previous characterization efforts led to a No Further Action determination from the Fire Department, that was based on the available data. Subsurface investigations have an inherent degree of uncertainty as it is not possible to sample all soil at a Site. During grading, it is likely that you could run into previously unknown conditions such as localized pockets of the former sumps. We would recommend that you include a contingency for such unknowns in your development budget of at least $100,000.

Potential methane mitigation systems for future construction

As part of your development of a new building on Site, the City of Santa Fe Springs will likely require methane mitigation due to the presence of the Site in the oil field. This would be confirmed after a methane gas survey is conducted and as part of the Site plan review. A rough estimate for methane mitigation is $4 per foot of slab.

CONCLUSIONS

Based on our review of the available data, should you decide to redevelop the Site, you will need to take into consideration the presence of the oil wells and residuals in soil. This will include a Site Plan Review of the abandoned wells to evaluate whether they need to be reabandoned to current standards, a soil management plan to manage the known impacted soil on Site during development and a methane mitigation system for the future building(s). A preliminary budget for your planning would be as follows:

Site Plan Review	$25,000
Reabandonment	$350,000-$1,000,000+
SMP	$105,000
Surprises	$100,000
Subtotal	$580,000-$1,230,000
	$600K-$1.2M

plus ~$4/foot of new slab should methane mitigation be required.

We thank you for the opportunity to be of service and would be happy to address any questions you may have.

Very truly yours,
Hazard Management Consulting Inc.



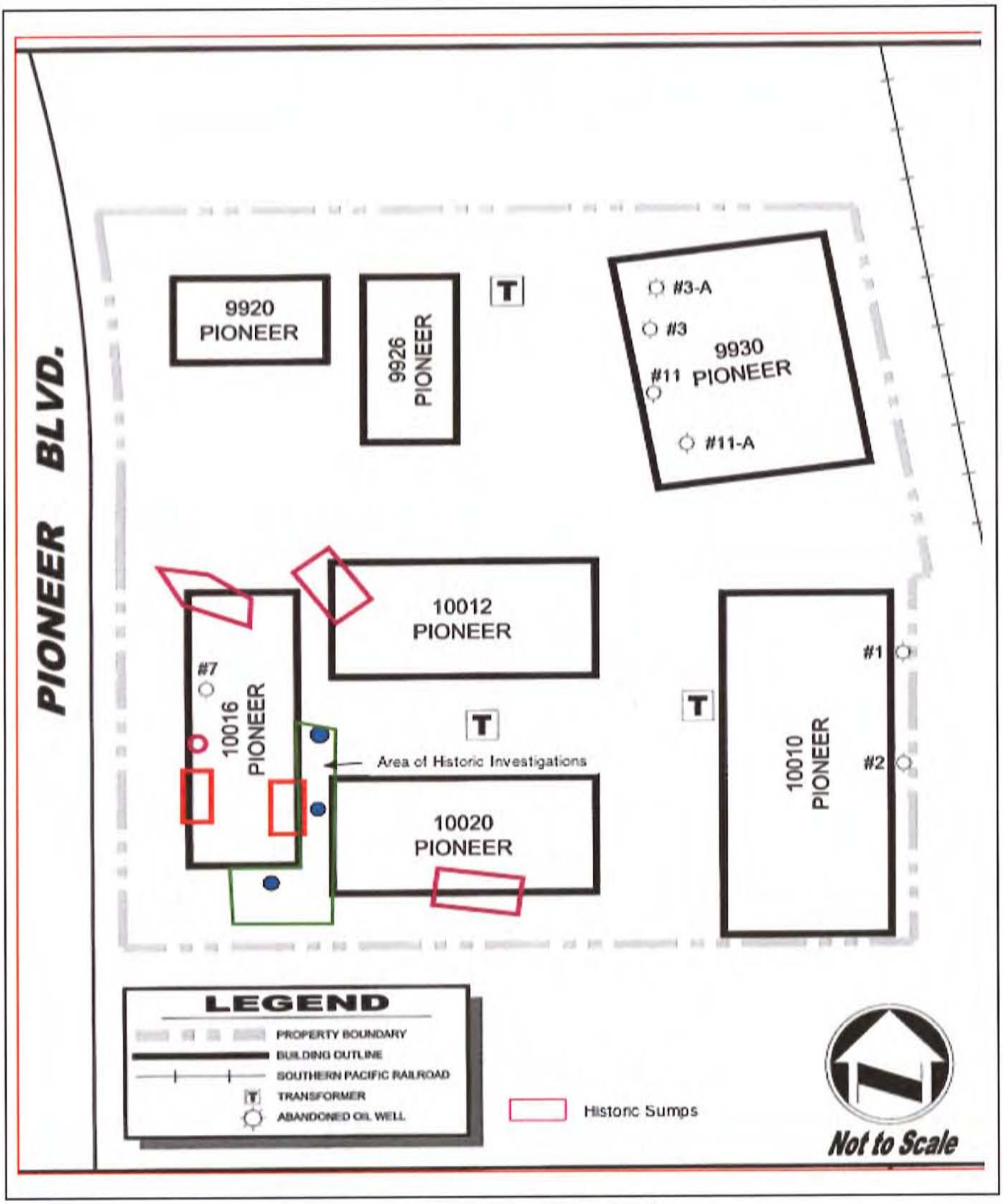
Mark S. Cousineau, NREP
Principal

Enclosures

ENCLOSURES

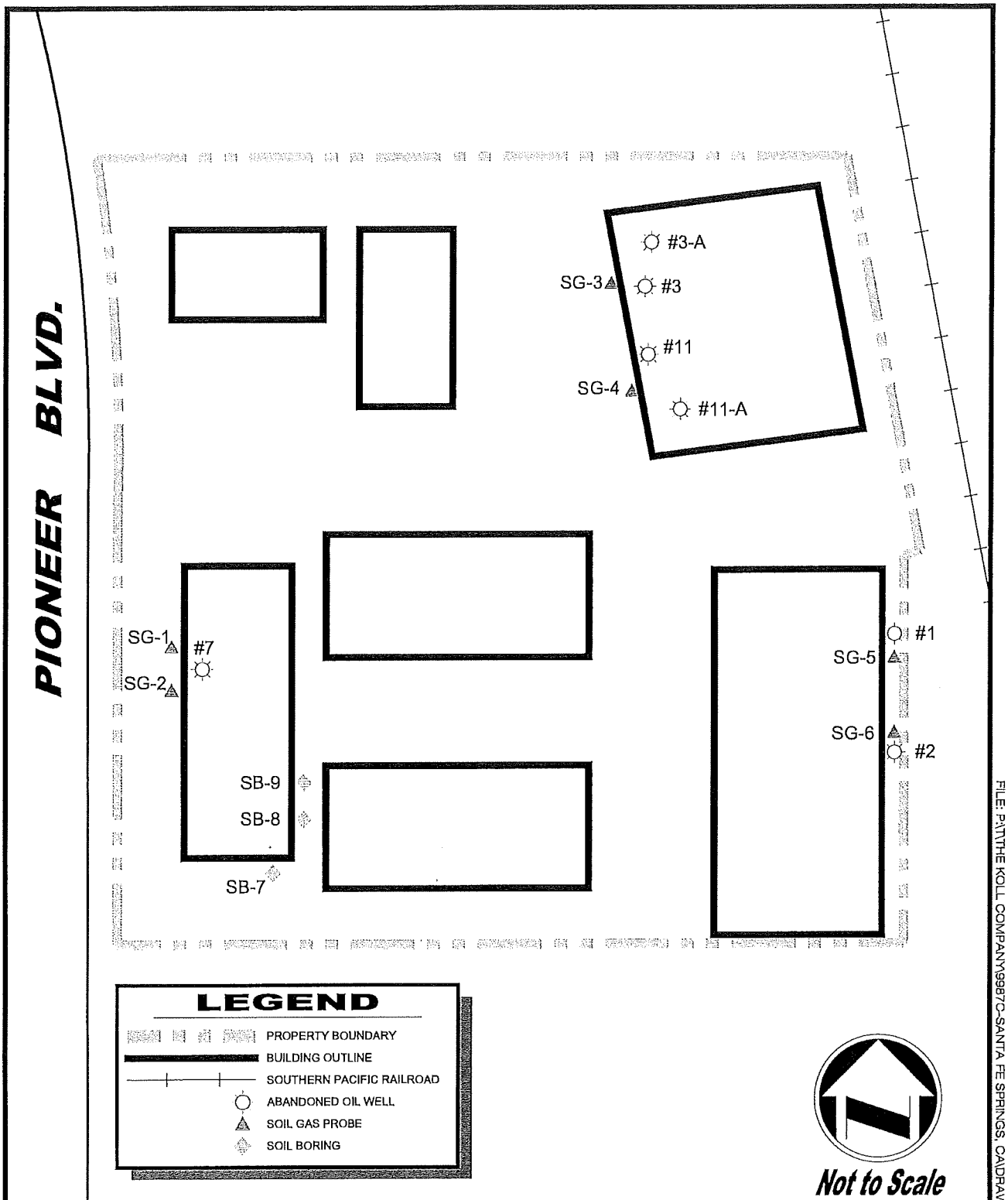
211 W. Avenida Cordoba, Suite 200 San Clemente, CA 92672 tel 949/361/3902 fax 949/361/3697 www.hmcinc.biz info@hmcinc.biz

FIGURES



HMC

Figure 2: Site Map



ENVIRON

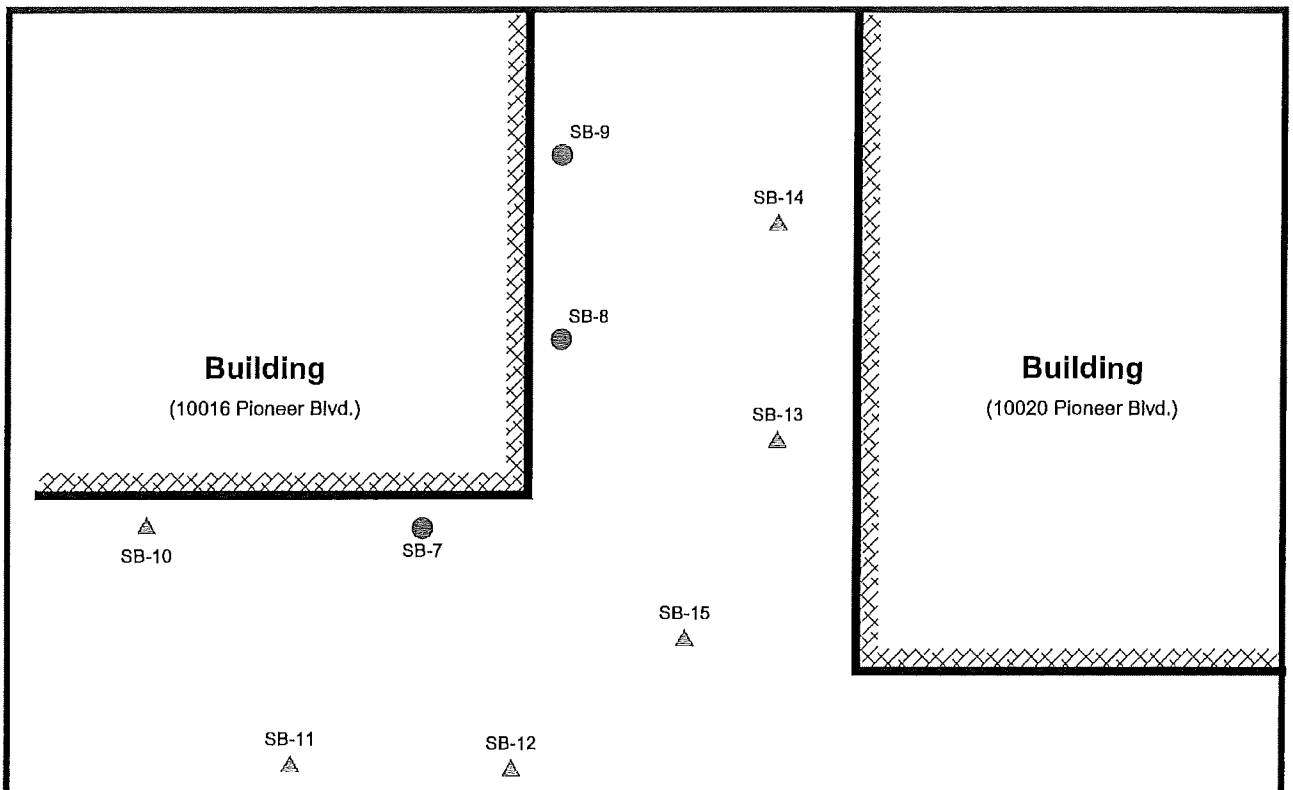
Phase II Sampling Location Plan

Santa Fe Springs Commerce Center
9920-10020 Pioneer Blvd., Santa Fe Springs, California

Figure 3

Drafter: JJC | Date: 2/13/03 | Contract Number: 04-9987C | Approved: | Revised: 2/10/04

FILE: P:\THE KOLL COMPANY\9987C-SANTA FE SPRINGS, CA\DRAWINGS\9987CF03



LEGEND

- Property Line
- Building Outline
- Soil Boring Drilled on 2/12/03
- Soil Boring Drilled on 2/27/03

0 15

Scale in Feet

ENVIRON

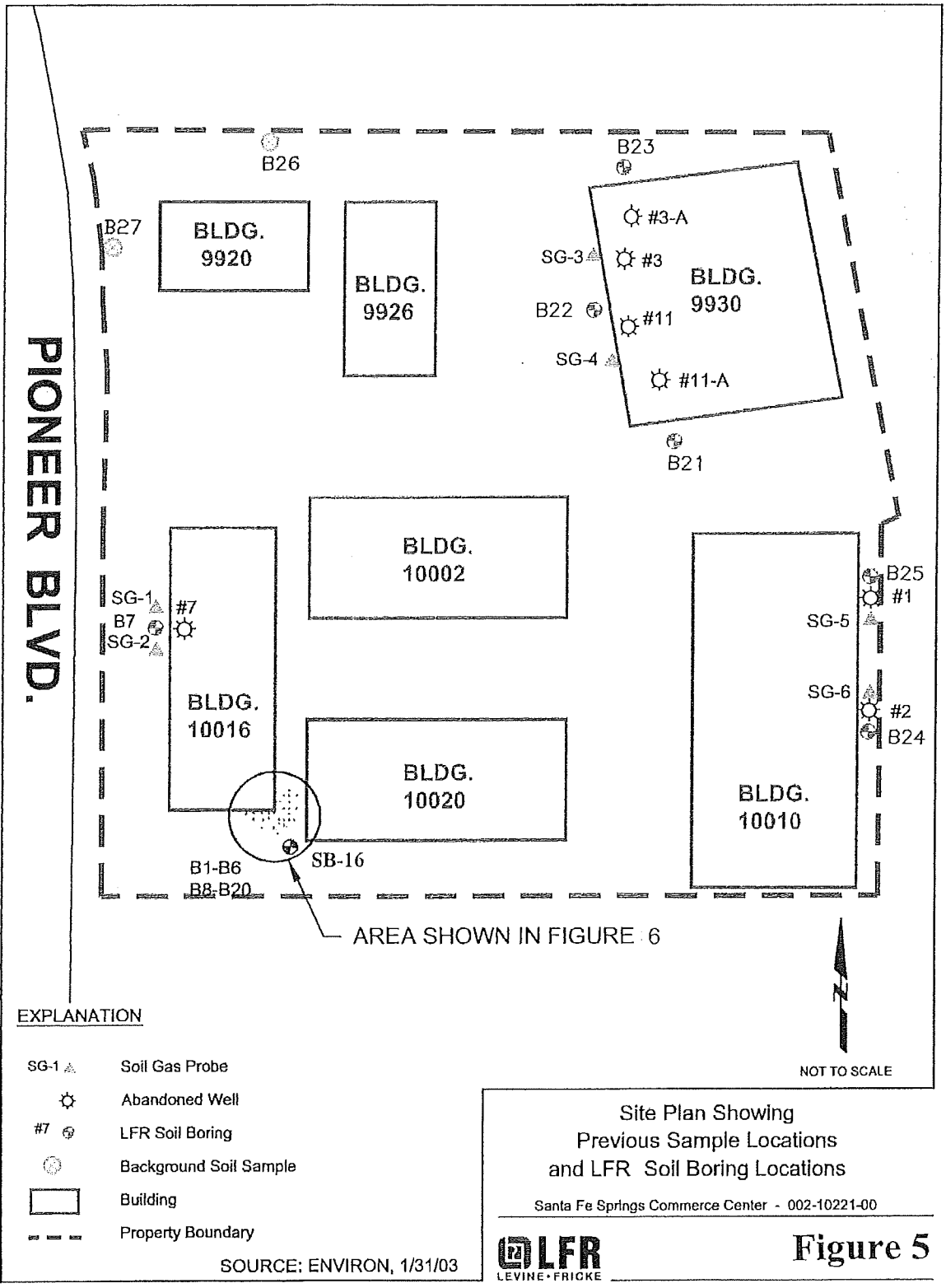
Phase II Soil Sampling Location Plan

Santa Fe Springs Commerce Center
9920-10020 Pioneer Blvd., Santa Fe Springs, California

Figure 4

Drafter: JJC Date: 2/05/04 Contract Number: 04-9987C Approved: Revised:

FILE: P:\T\The Koll Company\9987C - Santa Fe Springs, CA\Drawings\9987CF04



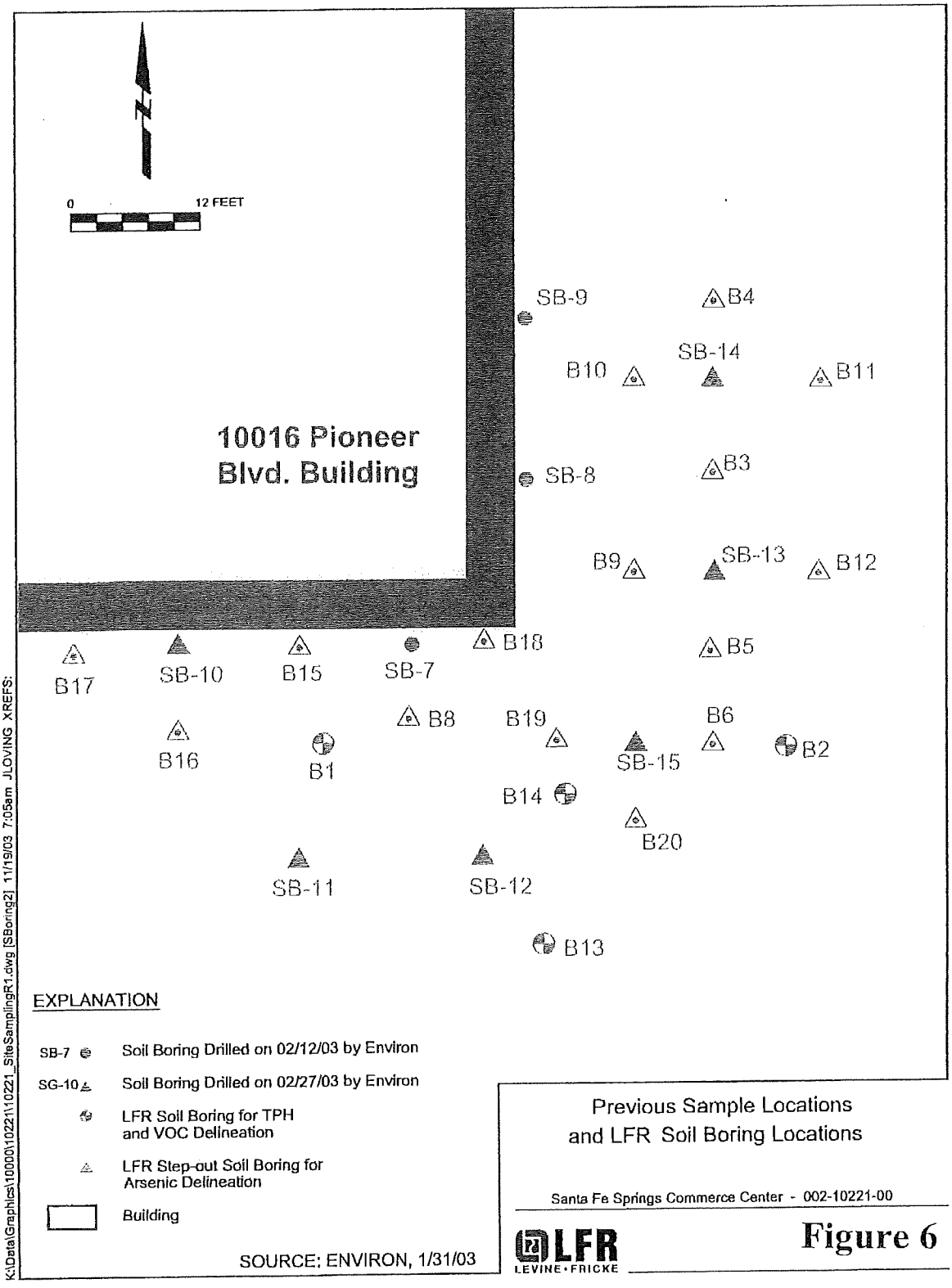
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Site Plan Showing
Previous Sample Locations
and LFR Soil Boring Locations

Santa Fe Springs Commerce Center - 002-10221-00

LFR LEVINE•FRICKE

Figure 5



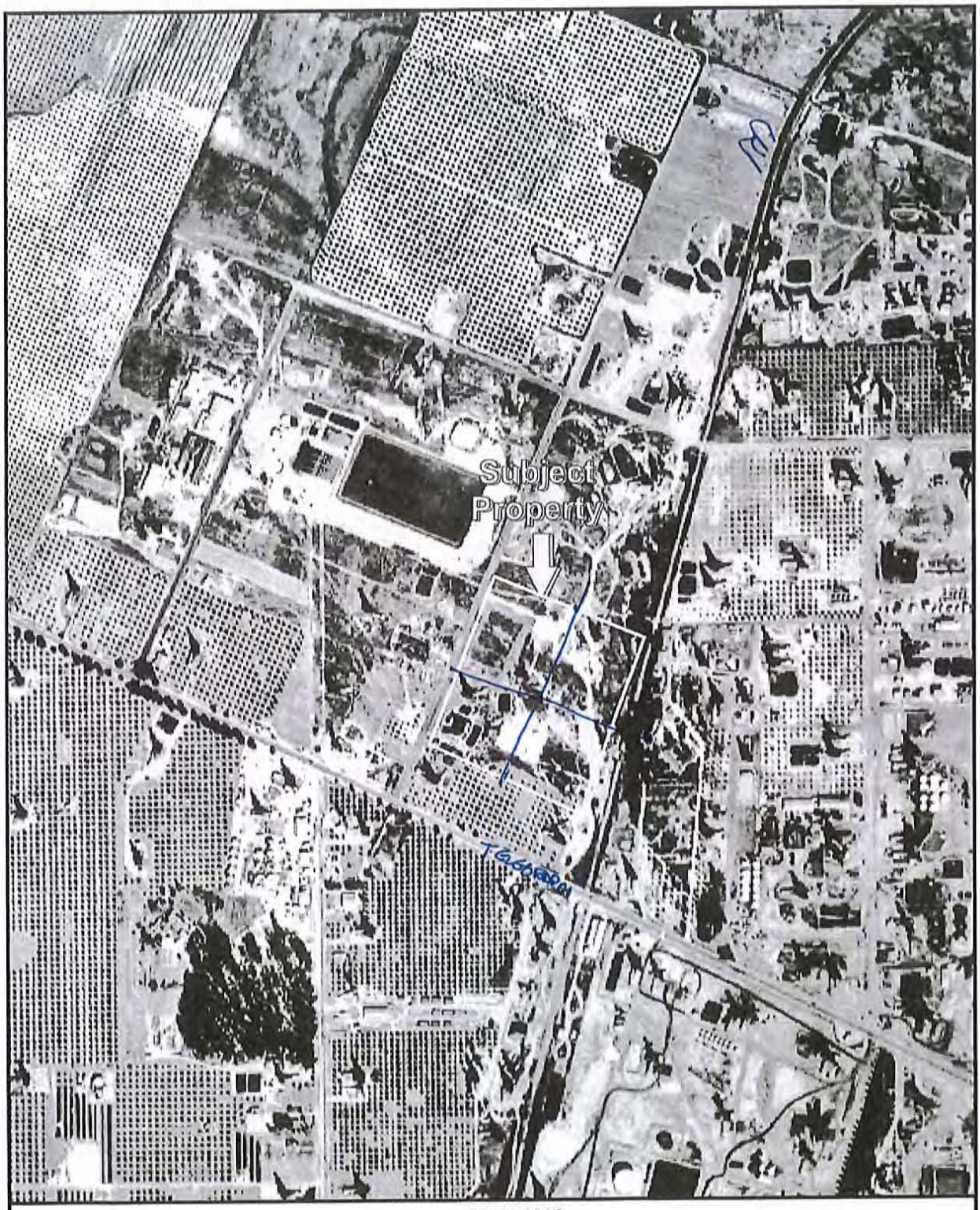
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Previous Sample Locations and LFR Soil Boring Locations

Santa Fe Springs Commerce Center - 002-10221-00

LFR LEVINE•FRICKE

Figure 6



Date: 1928

APPENDIX D: AERIAL PHOTOGRAPHS
Project No. 14-115170.3

PARTNER

Table 5
Analytical Results in Soil – VOCs
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Sample No. & Depth in Feet	Concentration (µg/kg)								
	1-4-Dichloro benzene	sec-Butyl benzene	tert-Butyl benzene	Ethyl benzene	Iso Propyl benzene	p-Iso Propyl benzene	Naphtha lene	n-Propyl benzene	1,2,4-Tri methyl benzene
ENVIRON Results (February 2003)									
SB-7-5	ND	ND	ND	ND	ND	ND	13.0	ND	ND
SB-7-10	ND	855	ND	ND	655	ND	1,210	564	ND
SB-7-15	ND	ND	ND	ND	ND	ND	17.9	ND	ND
SB-7-20	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-8-5	ND	7.4 J	ND	ND	12.5	ND	8.8 J	15.5	ND
SB-8-10	ND	848	50.9	ND	520	ND	6,680	896	5.1 J
SB-8-15	ND	27.9	ND	7.9 J	20.9	ND	220	17.2	ND
SB-8-20	ND	ND	ND	ND	ND	ND	27.5	ND	ND
SB-9-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-9-10	ND	74.3	6.2 J	ND	85.4	ND	142	142	ND
SB-9-15	ND	ND	ND	ND	ND	ND	7.0 J	ND	ND
SB-9-20	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-10-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-10-9	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-11-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-11-10	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-12-5	ND	5,000	303	4,890	4,370	55.0 J	42,400	7,370	ND
SB-12-10	ND	6,100	500 J	ND	6,440	ND	28,000	10,800	ND
SB-12-15	ND	1,840	134	ND	1,480	ND	13,400	1,500	ND
SB-12-20	ND	2,360	180	ND	1,670	ND	22,200	1,880	ND
SB-13-5	ND	10.8	ND	ND	12.1	ND	ND	10.6	ND
SB-13-9.5	ND	9.5 J	ND	ND	14.1	ND	ND	17.8	ND
SB-14-5	ND	ND	ND	ND	ND	7.7 J	17.0	ND	5.6 J
SB-14-10	ND	13.2	ND	ND	14.4	ND	ND	13.0	ND
SB-15-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-15-9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-15-24.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-15-28.5	ND	19.9	ND	ND	28.5 J	ND	549	35.0 J	ND
LFR Results (September 2003)									
B1-10	ND	ND	ND	ND	ND	ND	13,700	ND	ND
B2-35	ND	ND	ND	ND	ND	ND	1,160	ND	ND
B7-32	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-15	ND	ND	ND	ND	ND	3,160J	ND	18,400	ND
B13-55	ND	ND	ND	ND	ND	ND	ND	ND	ND

B14-10	13,900	2,160J	ND	2,150J	ND	ND	12,400	3,150	ND
B21-10	ND	ND	ND	ND	ND	ND	ND	ND	ND
B22-10	ND	ND	ND	ND	ND	ND	ND	ND	ND
B23-10	ND	ND	ND	ND	ND	ND	ND	ND	ND
B24-40	ND	ND	ND	ND	ND	ND	ND	ND	ND
B25-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
LFR Results (January 2004)									
SB16-15.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB16-40	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB16-60	ND	ND	ND	ND	ND	ND	ND	ND	ND
Residential PRG	NE	NE	NE	8,900	NE	ND	NE	NE	52,000
Industrial PRG	NE	NE	NE	20,000	NE	ND	NE	NE	170,000
City: Upper 5 ft	NE	NE	NE	NE	NE	ND	NE	NE	NE
City: >5 ft (LARWQCB)	NE	NE	NE	700*	NE	ND	NE	NE	NE

Notes:

1. VOCs = Volatile organic compounds; analyzed using EPA Method 8260B.
2. Sample depth is in feet below ground surface.
2. µg/kg = Microgram per kilogram.
3. ENVIRON samples were analyzed by American Environmental Testing Lab; LFR's samples were analyzed by Associated Labs.
4. ND = Not detected.
5. J = Estimated value.
6. Also reported by the laboratory for Sample SB-12-5 were 3,240 µg/kg of n-butylbenzene and 310 µg/kg of 1,2,4-trimethylbenzene.
7. m,p-xylenes were reported by the laboratory for some of the samples; the highest reported concentration was 79.0 J for Sample SB-12-5.
8. PRG = Preliminary Remediation Goal.
9. City = City of Santa Fe Springs's Soil Screening Guidelines and Site Mitigation Procedures for Industrial Sites, dated April 24, 2002.
10. LARWQCB = Interim Site Assessment and Cleanup Guidebook, dated May 1996, developed by the California Regional Water Quality Control Board – Los Angeles Region. The City recommends that these guidelines be used for soil at depths of greater than 5 feet below ground surface.
11. NE = Not established.

* The 700 µg/kg concentration was obtained from the LARWQCB Guidebook using the conservative assumptions of sand lithology and depth to ground water at 20 feet below the soil sample. This value would be 2,000 µg/kg for a silt lithology.

Table 6
Analytical Results in Soil – TPH
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Sample No. & Depth in Feet	Concentration (mg/kg)			
	TPH-G C_4-C_{12}	TPH-D C_{13}-C_{22}	TPH-H_l C_{23}-C_{32}	TPH-H_h C_{33}-C_{40}
ENVIRON Results (February 2003)				
SB-7-10	392	4,790	3,020	1,270
SB-7-15	0.598 J	ND	ND	ND
SB-8-5	36.9 J	287	785	430
SB-8-10	565	3,950	1,970	873
SB-10-5	ND	ND	42.4	11.3
SB-10-9	ND	225	1,150	773
SB-11-5	ND	202	601	319
SB-11-10	ND	345	901	464
SB-12-5	2,520	21,500	10,100	2,620
SB-12-10	2,100	21,700	12,200	3,570
SB-12-15	570	3,120	1,250	191
SB-12-20	689	3,690	1,520	240
SB-13-5	4.07	174	547	345
SB-13-9.5	3.51	125	982	494
SB-14-5	2.33	757	1,230	468
SB-14-10	3.11	143	656	414
SB-15-5	0.500 J	20.6	54.7	22.3
SB-15-9.5	ND	170	599	361
SB-15-24.5	ND	ND	ND	ND
SB-15-28.5	167	3,120	1,810	631
LFR Results (September 2003)				
	TPH-G C_6-C_{10}	TPH-D C_{10}-C_{22}	TPH-H_l C_{22}-C_{36}	TPH-H_h
B1-10	ND	125	110	--
B1-35	ND	ND	ND	--
B1-38	ND	ND	ND	--
B2-35	ND	986	301	--
B2-45	ND	ND	ND	--
B7-15	ND	ND	ND	--
B7-32	ND	ND	ND	--
B13-15	1,900	5,100	4,400	--
B13-55	ND	ND	ND	--
B14-10	35	42	62	--
B14-30	ND	ND	ND	--
B21-10	14	3	ND	--
B21-30	ND	ND	ND	--
B22-10	ND	3.0	ND	--

Sample No. & Depth in Feet	Concentration (mg/kg)			
	TPH-G C_4-C_{12}	TPH-D C_{13}-C_{22}	TPH-H_l C_{23}-C_{32}	TPH-H_h C_{33}-C_{40}
B22-35	ND	3.8	ND	--
B23-10	ND	ND	ND	--
B23-25	ND	ND	ND	--
B23-28	14	3.4	ND	--
B24-15	ND	3.2	ND	--
B24-40	ND	ND	ND	--
B24-60	ND	ND	ND	--
B25-5	ND	3,200	21,200	--
B25-40	ND	ND	ND	--
LFR Results (January 2004)				
	TPH-G Gasoline Range	TPH-D C_{12}-C_{28}	TPH-H_l C_{28}-C_{40}	TPH-H_h
SB16-15.5	ND	ND	ND	--
SB16-40	ND	ND	ND	--
SB16-60	ND	ND	ND	--
Residential PRG	NE	NE	NE	NE
Industrial PRG	NE	NE	NE	NE
City: Upper 5 ft	100	1,000	10,000	NE
City: >5 ft (LARWQCB)	100	100	1,000	NE

Notes:

1. TPH = Total petroleum hydrocarbons, analyzed using EPA Method 8015 modified for carbon chain: TPH-G, as gasoline (carbon ranges C_4-C_{12} for the ENVIRON results and C_6-C_{10} for the LFR results); TPH-D, as diesel fuel (C_{13}-C_{22} for the ENVIRON results and C_{10}-C_{22} for the LFR results); TPH-H_l, as heavy hydrocarbons (C_{23}-C_{32} for the ENVIRON results and C_{22}-C_{36} for the LFR results; and TPH-H_h, as heavy hydrocarbons (C_{33}-C_{40} for the ENVIRON results).
2. Sample depth is in feet below ground surface.
3. mg/kg = Milligram per kilogram.
4. ENVIRON samples were analyzed by American Environmental Testing Lab; LFR's samples were analyzed by Associated Labs.
5. ND = Not detected.
6. J = Estimated value.
7. "--" = Not analyzed.
8. NE = Not established.
9. PRG = Preliminary Remediation Goal.
10. City = City of Santa Fe Springs's Soil Screening Guidelines and Site Mitigation Procedures for Industrial Sites, dated April 24, 2002.
11. LARWQCB = Interim Site Assessment and Cleanup Guidebook, dated May 1996, developed by the California Regional Water Quality Control Board – Los Angeles Region. The City recommends that these guidelines be used for soil at depths of greater than 5 feet below ground surface.

Table 7
Analytical Results in Soil – PAHs
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Sample No. & Depth in Feet	Concentration (mg/kg)						
	Benzo(b) fluoran thene	Anthra cene	Fluoran thene	Fluorene	Naphtha lene	Phenan threne	Pyrene
ENVIRON Results (February 2003)							
SB-7-10	ND	ND	0.040	ND	0.731	1.42	0.106
SB-8-10	0.416	0.276	0.071	5.77	5.30	2.96	0.193
SB-12-5	2.29	ND	0.269	4.10	23.6	8.95	0.307
SB-12-10	2.51	ND	0.137 J	2.22	9.44	5.91	0.196 J
LFR Results (September 2003)							
B13-10	ND	ND	ND	1.67	5.9	2.2	ND
B13-5	ND	ND	ND	0.159	0.733	ND	ND
B14-10	ND	ND	ND	0.689	1.46	1.05	ND
B14-5	ND	ND	ND	1.75	ND	ND	ND
LFR Results (January 2004)							
SB16-5.5	ND	ND	ND	ND	ND	ND	ND
SB16-10.5	ND	ND	ND	ND	ND	ND	ND
SB16-29.5	ND	ND	ND	ND	ND	ND	ND
Residential PRG	0.62	22,000	2,300	2,700	56	NE	2,300
Industrial PRG	2.1	100,000	22,000	26,000	190	NE	29,000

Notes:

1. PAHs = Polynuclear aromatic hydrocarbons; analyzed using EPA Method 8310.
2. Sample depth is in feet below ground surface.
3. mg/kg = Milligram per kilogram.
4. ENVIRON samples were analyzed by American Environmental Testing Lab; LFR's samples were analyzed by Associated Labs.
5. ND = Not detected.
6. J = Estimated value.
7. Also reported by the laboratory for Sample SB-12-5 were benzo(a)anthracene 5.72 mg/kg; benzo(a)pyrene 0.430 mg/kg; benzo(k)fluoranthene 0.212 mg/kg; chrysene 14.6 mg/kg; indeno(1,2,3-cd)pyrene 1.72 mg/kg; and acenaphthene 1.05 mg/kg.
8. Also reported by the laboratory for Sample SB-12-10 were benzo(a)anthracene 2.82 mg/kg; benzo(a)pyrene 0.294 mg/kg; chrysene 8.51 mg/kg; and acenaphthene 0.594 mg/kg.
9. NE = Not established.
10. PRG = Preliminary Remediation Goal.
11. City = City of Santa Fe Springs, Certified Unified Program Agency's Soil Screening Guidelines and Site Mitigation Procedures for Industrial Sites, dated April 24, 2002.
12. LARWQCB = Interim Site Assessment and Cleanup Guidebook, dated May 1996, developed by the California Regional Water Quality Control Board – Los Angeles Region. The City recommends that these guidelines be used for soil at depths of greater than 5 feet below ground surface.

Table 8
Analytical Results in Soil – Arsenic
Santa Fe Springs Commerce Center
10016 Pioneer Blvd.
Santa Fe Springs, CA 90670

Sample No. & Depth in Feet	Arsenic (mg/kg)	Arsenic DI Extract (mg/l)
ENVIRON Results (February 2003)		
SB-7-5	66.5	--
SB-7-10	ND	--
SB-8-10	ND	--
SB-8-10	ND	--
SB-9-5	ND	--
SB-9-10	ND	--
SB-10-5	5.25J	--
SB-11-5	ND	--
SB-12-5	ND	--
SB-12-10	ND	--
SB-12-20	ND	--
SB-13-5	12.5	--
SB-14-5	28.6	--
SB-15-5	33.9	--
LFR Results (September 2003)		
B3-5	4.8	--
B4-5	19.4	--
B4-10	10.7	--
B5-5	43	<0.05
B5-10	4.65	--
B6-5	5.17	--
B8-5	8.12	--
B9-5	6.06	--
B10-5	20	--
B11-5	12.3	--
B12-5	9.42	--
B15-5	16	--
B16-5	3.84	--
B17-5	4.02	--
B18-5	24.8	0.147
B18-10	4.46	--
B19-5	5.42	--
B20-5	7.41	--
B26-5	5.77	--
B27-5	8.2	--

Notes:

1. Arsenic analyses were performed using EPA Method 6010B.
2. Arsenic deionized water Waste Extraction Test (WET) analyses were performed using Method 6010/DI.
3. Sample depth is in feet below ground surface.
4. mg/kg = Milligram per kilogram
5. mg/l = Milligram per liter.
6. ENVIRON samples were analyzed by American Environmental Testing Lab; LFR's samples were analyzed by Associated Labs.
7. "--" = Not analyzed.
8. ND = Not detected.

Table 9
Analytical Results in Soil – Metals, Cyanide, and pH
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Metal	Concentration (mg/kg)								
	SB-7-5	SB-7-10	SB-8-5	SB-8-10	SB-9-5	SB-9-10	SB-12-10	Residential PRG	Industrial PRG
ENVIRON Results (February 2003)									
Antimony	ND	ND	ND	ND	ND	ND	ND	31	410
Arsenic	66.5	ND	ND	ND	ND	ND	ND	22/0.39*	260/1.6*
Barium	158	50.5	134	52.5	110	47.1	69.5	5,400	67,000
Beryllium	ND	ND	ND	ND	ND	ND	ND	150	1,900
Cadmium	ND	ND	ND	ND	ND	ND	ND	37	450
Chromium (Total)	16.2	8.20	13.2	8.10	15.0	7.60	11.1	210	450
Chromium VI (EPA Method 7196A)	ND	NA	ND	NA	NA	NA	NA	30	64
Cobalt	7.30	5.70	7.00	5.70	7.70	5.30	7.30	900	1,900
Copper	28.0	9.60	18.5	9.0	16.5	9.30	11.9	3,100	41,000
Lead	65.0	3.90J	20.4	3.10 J	28.4	ND	2.75 J	400	750
Mercury (EPA 7471)	ND	ND	ND	ND	ND	ND	ND	23 +	310 +
Molybdenum	ND	ND	ND	ND	ND	ND	ND	390	5,100
Nickel	11.9	7.50	108	7.30	11.3	7.30	10.8	1,600	20,000
Selenium	ND	ND	ND	ND	ND	ND	ND	390	5,100
Silver	ND	ND	ND	ND	ND	ND	ND	390	5,100
Thallium	ND	ND	ND	ND	ND	ND	ND	5.2	67
Vanadium	27.1	18.1	25.1	18.3	27.3	16.6	25.6	550	7,200
Zinc	86.5	27.1	62.5	27.6	49.8	25.7	37.3	23,000	100,000
Cyanide	ND	NA	ND	NA	NA	NA	NA	1,200/11**	12,000/35 **
pH	8.30	7.74	8.40	9.27	8.66	8.55	NA	NE	NE

Notes:

1. Metal analyses were performed using EPA Methods 6010B/7000, unless noted otherwise. Cyanide was analyzed using EPA Method 9014. pH was analyzed using EPA Method 9045C.
2. Sample depth is in feet below ground surface.
3. mg/kg = Milligram per kilogram.
4. ENVIRON samples were analyzed by American Environmental Testing Lab.
5. PRG = Preliminary Remediation Goal. The given values are from the latest update as of October 1, 2002.
6. ND = Not detected, at the detection limits shown in Appendix A.
7. NA = Not analyzed.
8. J = Estimated value.
9. NE = Not established.

* The PRGs for arsenic are for noncancer point and cancer point, respectively.

\+ The PRGs for mercury are for mercury chloride.

** The PRGs for cyanide are for free cyanide and hydrogen cyanide, respectively.

Table 10
Analytical Results in Ground Water – VOCs and TPH
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Sample No.	VOC Concentration (μg/l)		TPH Concentration (mg/l)		
	1,1,1-Trichloroethane	1,1-Dichloroethene	Gasoline Range	TPH-D C_{12}-C_{28}	TPH-H C_{28}-C_{40}
LFR Results (September 2003)					
B2	1.4J	1.3J	--	--	--
B24	ND	ND	--	--	--
LFR Results (January 2004)					
SB16	1.1	ND	ND	ND	ND
Primary MCL	200	6	NE	NE	NE

Notes:

1. VOCs = Volatile organic compounds; analyzed using EPA Method 8260B.
2. µg/l = Microgram per liter.
3. mg/l = Milligram per liter.
4. LFR's samples were analyzed by Associated Labs.
5. "--" = Not analyzed.
6. ND = Not detected.
7. J = Estimated value.
8. MCL = Maximum contaminant level, as established by the California Department of Health Services for drinking water.
9. NE = Not established.

Table 4
Soil Gas Survey Results
Santa Fe Springs Commerce Center
9920-10020 Pioneer Boulevard
Santa Fe Springs, California 90670

Probe Number	Sample Depth (ft bgs[2])	Date	Time of Day (a.m.)	Maximum PID[3] Reading at Surface of Probe (ppm[4])	Concentration[1]				
					Methane (%LEL[5])	Oxygen (%VOL[6])	Carbon Dioxide (% VOL)	Hydrogen Sulfide (ppm)	PID (ppm)
SG-1	5	01/24/03	8:45	--	0	12.4	7.6	0	0
		02/03/03	10:13	0	0	11	8.2	0	0
SG-2	10	01/24/03	8:58	15	0	10.1	8.2	0	0
		02/03/03	10:15	0	0	13.2	5.5	0	0
SG-3	5	01/24/03	9:20	18	0	10.6	10.6	0	0
		02/03/03	10:32	0	0	13.9	7.7	0	0
SG-4	10	01/24/03	9:40	41	0	11.7	9.2	0	0
		02/03/03	10:37	0	0	12.7	9.8	0	3.5
SG-5	5	01/24/03	10:05	71	0	10.3	9.9	0	0
		02/03/03	10:52	0	0	10.6	9	0	0
SG-6	10	01/24/03	9:52	14	5	3.8	14.9	0	0
		02/03/03	10:46	0	2	10.7	9.8	0	0

Notes:

1. Methane, oxygen, carbon dioxide, and hydrogen sulfide were measured using an RKI Instruments Eagle LEL 4-Gas Meter.
2. ft bgs: Feet below ground surface
3. PID: Photoionization detector
4. ppm: Parts per million
5. %LEL: Percent of the lower explosive limit
6. %VOL: Percent by volume

APPENDIX H: PHASE II ENVIRONMENTAL SITE ASSESSMENT

HMC
HAZARD MANAGEMENT CONSULTING

September 16, 2019

Mr. Robert Knapp
The Brookhollow Group
151 Kalmus Drive, Suite F1
Costa Mesa, California 92626

Subject: **Results of a Soil and Soil Gas Investigation**
9920-10020 Pioneer Boulevard
Santa Fe Springs, California

Dear Mr. Knapp:

This report presents the results of a soil and soil gas investigation completed at the property located at 9920-10020 Pioneer Boulevard in the city of Santa Fe Springs, California (Site; Figure 1). The site currently contains seven commercial buildings that were constructed in the 1970s (referred to by others as "Building 9920" through "Building 10020," corresponding to the property addresses). The Brookhollow Group currently owns the site and is considered redeveloping the property with new commercial buildings. The site lies within an oil field and seven oil wells were historically drilled on the site. Investigations completed after the existing commercial buildings were constructed identified sporadic concentrations of petroleum hydrocarbons and a small area of arsenic-impacted soil. The characterization of the arsenic-impacted soil was completed under the direction and oversight of the City of Santa Fe Springs Fire Department (SFSFD). Based on the results, the SFSFD issued a no further action (NFA) letter contingent on the soils being capped and a land use covenant (LUC) be recorded with the Los Angeles County Tax Assessor. The soils have been "capped" with the existing hard scape and buildings, and an LUC was recorded.

In 2019, Hazard Management Consulting, Inc. (HMC) was retained to complete a Phase I Environmental Site Assessment (ESA) for the site, which included reviewing all previous data. Based on the results, HMC recommended completing a soil and soil gas investigation to further assess the concentrations of petroleum hydrocarbons and arsenic in shallow soil that will be encountered during grading activities, and to assess the concentrations of volatile organic compounds (VOCs) and methane in soil gas. Due to the property's location within the Santa Fe Springs Oil Field, the Santa Fe Springs Fire Department (SFSFD) will require a methane gas survey be completed under its jurisdiction following submittal of the

redevelopment plans. The new buildings will also be required to be constructed with a methane gas mitigation system while on-going methane gas monitoring will be required on a quarterly basis for one year. If methane gas concentrations are discovered to be extremely elevated, an active system may be needed. To obtain a higher confidence level of the type of system that will be required, HMC recommended completing a methane gas and VOC survey throughout the site.

BACKGROUND

The following presents a summary of the site activities, previous investigations, and our assessment of the previous data based on current regulatory guidelines. Groundwater has been previously recorded at the site at a depth of approximately 58 to 60 feet below the ground surface (bgs) and will not be encountered during future redevelopment activities.

Site History and Previous Investigations

The site lies within the Santa Fe Springs Oil Field and the City of Santa Fe Springs Methane Zone. The site was historically used for oil production including the installation of seven oil wells. Oil wells are sometimes drilled using mud rotary drilling methods which utilize “drilling muds” to keep the borehole open during drilling activities. These “muds” consist of a bentonite slurry that is stored during drilling activities in earth-lined pits dug next to the well (referred to herein as “drilling sumps”). Heavy metals, such as barium, are sometimes added to the drilling muds to increase the specific gravity of the materials as drilling activities deepen. Once the oil well encountered an oil producing zone, petroleum hydrocarbons would be introduced to the drilling materials. After drilling operations ceased, the sumps are typically used as a dumping ground for other materials and equipment. These materials would be thrown into the sumps, which were later buried. Therefore, sump materials sometimes contain contaminants such as petroleum hydrocarbons, VOCs, and/or metals. Drilling muds (i.e. bentonite clay) are typically not acceptable fill materials for geotechnical reasons.

In 2002, the Koll Company (Koll) retained Environ International Corporation (Environ) to conduct a Phase I ESA as part of Koll’s due diligence for the potential acquisition of the Site from Roll Properties International Associates III (Roll). Environ identified two areas of potential environmental concern including the on-site oil wells and a former tenant which reportedly operated a laboratory

in the southern corner of Building 10016. In 2003, Environ conducted a subsurface investigation to address these two concerns. During this time period, Roll retained LFR Levine Fricke (LFR) to also complete soil sampling on its behalf.

Based on the laboratory results, elevated concentrations of arsenic (up to 66.5 milligrams per kilogram [mg/kg]) and petroleum hydrocarbons were discovered in shallow soil immediately southeast of the corner of Building 10016 (shown as the "Area of Arsenic-Impacted Soil" on Figure 2). It should be noted that most of the soil sampling activities were completed by others in this small localized area. Due to the elevated arsenic concentrations, the information was presented to the SFSFD for review and comment. Although the lateral extent of the petroleum hydrocarbons and arsenic had not been fully defined in this area, the SFSFD issued a no further action (NFA) letter contingent on the soils being "…capped with either a parking lot or building" and an LUC be issued with the Los Angeles County Tax Assessor. The soils have been "capped" with the existing hard scape and buildings, and an LUC was recorded.

In 2003, Environ also completed a methane gas screening of the site by installing and monitoring six soil gas points. Low concentrations of methane gas were report (ranging from 0 to 5 percent of the Lower Explosive Limit [LEL], or 0 to 2,500 parts per million [ppm]).

The LEL for methane gas is 50,000 ppm or 5% by volume of ambient air. The LEL is the level at which the concentration of methane gas must reach to become an explosion risk. The Upper Explosive Limit (UEL) for methane gas is 170,000 ppm or 17% by volume of ambient air. The UEL is the level of methane gas which is too rich to explode. The City of Santa Fe Springs maintains an ordinance, known as Ordinance No. 955, which mandates methane gas monitoring and mitigation measures. Based on the City of Santa Fe Springs Ordinance No. 955, any new construction within the City of Santa Fe Springs Methane Zone must be monitored for methane gas under the direction and oversight of the SFSFD prior to new construction and on a quarterly basis for one year. If concentrations of methane gas are below 25 percent of the LEL (i.e. 1.25 percent by volume of air or 12,500 ppm/v) during the initial methane gas monitoring event, a methane gas mitigation system shall be installed in the new building (e.g. ventilation system or a passive barrier system) and quarterly methane gas monitoring will be required for one year. If concentrations are below 25

percent of the LEL during the first year, the system will be required to be monitored on an annual basis. If concentrations are below 2.5 percent of the LEL (i.e. 0.125 percent by volume of air or 1,250 ppm/v), the Fire Chief may waive the required annual monitoring. If concentrations are above 25 percent of the LEL, a protective mitigation system will be recommended (e.g. engineering designed active ventilation system, mechanical air exchange system, or active barrier system).

Assessment of Previous Data

HMC superimposed the location of the previous sample points onto the existing site plan and reviewed the data in accordance with current regulatory guidelines (Figure 2). It should be noted that the previous sample location map was not scaled, and therefore, the sample locations are approximate. HMC compared the total petroleum hydrocarbons carbon chain C_4-C_{32} (TPHcc) data collected at depths of less than 5 feet bgs (the assumed depth of the grading activities) to the Environmental Protection Agency (EPA) Regional Screening Levels for industrial/commercial land use (EPA-RSLi) for the protection of human health through dermal contact, digestion, and inhalation. Based on our review, two areas (associated with previous boring SB12 and B25; Figure 2) exceeded regulatory guidelines for the protection of human health. These areas were located immediately southeast of Building 10016 (SB12) and immediately east of Building 10010 (SB25). Sample SB12 also contained elevated concentrations of naphthalene. With the exception of arsenic, laboratory results indicated no detectable to low concentrations of Title 22 metals.

Arsenic is naturally occurring. Due to the granitic nature of California soils, arsenic concentrations typically exceed the federal screening levels for the protection of human health. Based on this information, regulatory agencies commonly assess arsenic concentrations based on published background concentrations. The SFSFD uses published background concentrations presented by the Kearney Foundation of Soil Science (Kearney). According to Kearney, background concentrations of arsenic in California ranges from approximately 0.59 to 11 mg/kg. Based on this publication, elevated concentrations of arsenic are defined by the SFSFD as concentrations exceeding 11 mg/kg.

Based on these criteria, laboratory results of soil samples collected during previous investigations indicated elevated concentrations of arsenic in one area located immediately southeast of Building 10016 (referred to by HMC as the “Area of Arsenic-Impacted Soil”). It should be noted that only two

other sample points (B26 and B27) were used to collect soil samples for analyses of arsenic. As noted above, these data were provided to the SFSFD who issued a NFA letter contingent that this small localized area be capped by a parking lot or building and is not used for residential purposes.

In order to further assess the extent of possible contamination in shallow soils throughout the site which will be encountered during grading activities, HMC recommended collecting and analyzing soil samples throughout the site and in possible areas of environmental concern (i.e. in the vicinity of former oil production activities). To further address these areas of possible concern, HMC used historical aerial photographs to superimpose oil derricks, aboveground storage tanks (ASTs), and drilling sumps onto a current site map (Figure 3). As shown on Figure 3, four drilling sumps were observed in the southwestern portion of the site and three ASTs were located immediately south of the site.

OBJECTIVES

The objectives of the investigations described herein were to assess the current concentrations of petroleum hydrocarbons and arsenic in shallow soil throughout the site and to assess the current concentrations of methane gas and VOCs in soil gas.

SUBSURFACE INVESTIGATION

The soil and soil gas investigation included the drilling of 15 soil borings (designated A1 through A15) using direct-push or hand auger drilling equipment to depths of approximately 5 feet bgs. The borings were used to collect shallow soil samples and for the installation of soil vapor monitoring points for the collection of soil gas samples that were analyzed for VOCs and for monitoring methane gas using a field instrument (Figure 2). The soil borings were drilled on June 10, 2019 and a mobile laboratory was used on June 12, 2019 to collect and analyze soil gas samples. Following the collection of soil gas samples, methane gas was monitored using a Landtec landfill gas meter by HMC. Work was completed under the direction and oversight of Mr. Paul Roberts, a California Professional Geologist from Ardent Environmental Group, Inc., an affiliate of HMC. Boring logs are presented in Attachment B, laboratory reports are presented in Attachment C, and methane gas monitoring field logs are presented in Attachment D. A summary of the laboratory results associated with the soil and soil gas sampling are presented on Tables 1 and 2. Methane gas monitoring results are presented on Table 3.

Soil Sampling

In general, soil borings A1 through A5 were drilled in the vicinity of the Area of Arsenic-Impacted Soil to further assess the extent of petroleum hydrocarbons noted in previous sample point B12 and to further asses the lateral extent of elevated arsenic. Soil borings A9 and A10 were drilled to further assess the extent of petroleum hydrocarbon impacted soil previously detected in boring B25. The remaining soil borings were drilled in areas of possible environmental concern, such as historical drilling sumps, or randomly throughout the site (Figure 3).

Soil samples were collected at 2.5 and 5 feet bgs and were screened in the field for stains, odors, and elevated photoionization detector (PID) readings. Olive gray to dark gray soil with a petroleum hydrocarbon odor was encountered in borings A2, A3, A4, A5, A7, A9, A10, A11, and A12 at various depths from surface to 5 feet bgs. PID readings were measured up to 18.2 ppm, which would be considered low compared to the South Coast Air Quality Management District (SCAQMD) Rule 1166 threshold of 50 ppm. Soil lithology consisted of interbedded silt with minor fine sand and silty fine sand. Select soil samples were analyzed by a State-certified environmental laboratory for VOCs, TPHcc, and arsenic. One randomly selected soil sample from each boring, at depths of either 2.5 or 5 feet bgs, were chemically analyzed. Fifteen soil samples (one sample per boring) were analyzed for TPHcc and 13 selected soil samples were analyzed for arsenic. Laboratory results indicated elevated concentrations of petroleum hydrocarbons exceeding the federal EPA-RSLi value in boring B11. No detectable to low concentrations of VOCs were reported. The sporadic observation of petroleum hydrocarbon stained and odorous soil would be expected at a property that was formerly used for oil production and had been graded for construction.

Elevated concentrations of arsenic were reported in ten of the 13 soil borings drilled throughout the site exceeding the background criteria of 11 mg/kg. The arsenic was at similar concentrations to that previously discovered in the Area of Arsenic-Impacted Soil, with no particular area of elevated concentrations noted (i.e. no source area or possible release point). Although the reason for the elevated arsenic is unknown, due to the sporadic locations throughout the site, it is assumed that the source is associated with the granitic nature of Southern California soils (i.e. background).

Soil Gas Sampling and Methane Monitoring

Following the collection of the soil samples, soil vapor monitoring points were installed in each borehole at a depth of approximately 5 feet bgs. Each soil vapor monitoring point consisted of new, approximate 0.25-inch outside diameter, Nylaflow tubing. The soil vapor monitoring point was placed midway within an approximate 1-foot zone of No. 2/12 sand pack, followed by approximately 0.5-foot of dry granular bentonite. The remaining borehole was filled with hydrated granular bentonite. The soil gas points were allowed to equilibrate for two days prior to sampling. On June 12, 2019, the soil gas monitoring points were sampled by a State-certified mobile environmental laboratory. Prior to sampling, a shut-in test of the sample train was completed and each soil gas monitoring point was purged of approximately three volumes of air with a low flow pump (approximately 200 milliliter per minute [ml/min]). Lithological vacuum was measured prior to and during purging and sampling with a Magnehelic gauge. Lithological vacuum did not exceed 100 inches of water. Samples were collected using a glass syringe and immediately analyzed with the mobile laboratory for VOCs in general accordance with EPA Method No. 8260B. A tracer gas, consisting of a mixture of n-pentane, n-hexane, and n-heptane, was used to assure that breakthrough was not occurring and to assure that the soil vapor points were properly constructed. With the exception of sample point A4-5, none of the tracer gasses were detected in the analyses. Based on these results, the VOC and methane gas concentrations from this borehole may not be representative of soil gas concentrations. Installation and sampling of soil gas monitoring points were completed in general accordance with current DTSC guidelines (DTSC, 2011; DTSC, 2015). Immediately following the sampling activities, a Landtec meter was used to monitor methane gas.

Detectable soil gas concentrations were compared to the Department of Toxic Substances Control Screening Levels for industrial/commercial land use (DTSC-SLi) and the EPA Regional Screening Levels for industrial/commercial land use (EPA-RSLi). These very conservative guidelines are based on the protection of human health through possible vapor intrusion. These guidelines provide ambient air concentrations that are modified for soil gas concentrations by using a regulatory approved attenuation factor. The DTSC-SLi and EPA-RSLi were calculated by modifying the ambient air concentrations using the EPA provided attenuation factor of 0.03. As noted on Table 2, sporadic concentrations of benzene, bromodichloromethane, and ethylbenzene slightly exceeded the very conservative screening levels were detected in soil gas. The constituents are commonly associated

with petroleum hydrocarbons and are likely the result of sporadic petroleum hydrocarbon impacted soil located at the site. Since the City will require a vapor mitigation system due to the property location within an oil field, these concentrations would be insignificant once the mitigation system is installed.

Methane was monitored from each sampling point using a Landtec Gem2000 field meter to assess the concentrations of methane present. The field instrument was allowed to equilibrate over a few minutes before a reading was taken. No detectable to low concentrations of methane (up to 0.4 percent by volume of ambient air or 4,000 ppm) were detected. These results would be considered low.

CONCLUSIONS AND RECOMMENDATIONS

The client is considered redeveloping the property with commercial buildings. Previous investigations have shown elevated concentrations of petroleum hydrocarbons and arsenic (up to 66.5 mg/kg) in two areas of the site. It should be noted that these previous investigations were limited in extent. The petroleum hydrocarbon contaminants were likely associated with the historical oil production activities completed at the site and in the site vicinity.

To further assess the extent of possible contaminants that might be encountered during mass grading, HMC collected a number of shallow soil and soil gas samples from throughout the site, and monitored methane gas. Based on the results, a number of soil samples indicated petroleum hydrocarbon stained and odorous soil in sporadic areas of the site. In general, no hot-spot indicative of a significant release was noted in soil gas. Laboratory results indicated three soil samples sporadically located throughout the site with elevated concentrations of petroleum hydrocarbons. No elevated PID readings were noted.

Based on the concentrations and observations, sporadic petroleum hydrocarbon stained and odorous soils typical of oil field locations will be encountered during grading activities. Due to the lack of PID readings and low concentrations of VOC analytes in soil, the concentrations of heavy petroleum hydrocarbons would not pose a significant risk to the health of construction workers. Since these materials will be “capped” with asphalt or buildings, there is a low likelihood that future occupants will be exposed to these soils. Based on this information, HMC recommends no further work at this time. Prior to mass grading,

HMC recommends that a Soil Management Plan (SMP) be prepared and implemented during grading, including monitoring of VOC soil emissions in general accordance with SCAQMD Rule 1166.

Although elevated concentrations of arsenic have been detected in sporadic locations throughout the site, the concentrations appear to be from naturally occurring granitic lithology of Southern California soils. The arsenic concentrations discovered during this investigation did not exceed those previously discovered and allowed to be left in-place by the SFSFD, contingent on the site being capped with asphalt or buildings and an LUC recorded. Since the site is planned to be redeveloped for commercial use, and more elevated concentrations have not been discovered, HMC recommends that the soils be managed during future redevelopment and grading activities in accordance the recommended SMP. Excavation activities will be completed while monitoring fugitive dust in accordance with SCAQMD's Rule 1466. The SFSFD should be notified of the proposed scope of work and provided a copy of the SMP. Following grading activities, the LUC will need to be revised to include the entire site boundary.

Due to the location of the site within an oil field, the City of Santa Fe Springs will require the new buildings to be constructed with a methane gas mitigation system (e.g. passive vapor barrier). The City will require an initial methane gas survey and quarterly monitoring for one year. Based on the results, annual monitoring may be required indefinitely. However, if the concentrations remain low over a one year period, the Fire Chief may waive the annual monitoring requirement. Due to the slightly elevated concentrations of VOCs in soil gas, HMC recommends that the new building be constructed with a passive vapor barrier. This mitigation system will satisfy the SFSFD for methane gas in accordance with Ordinance No. 955 and protect future occupants from possible vapor intrusion of VOCs.

If there are any questions regarding this report, please feel free to contact the undersigned.

Sincerely,
Hazard Management Consulting, Inc.

Mark S. Cousineau
Principal

Paul A. Roberts, P.G.
Principal Geologist

PAR/MSC/DK/RM/aw

Attachments: Table 1 – Laboratory Results of Soil Samples
Table 2 – Laboratory Results of Soil Gas Samples
Table 3 – Field Measurements from Methane Gas Survey
Figure 1 – Site Location Map
Figure 2 – Previous Investigation Map
Figure 3 – Current Investigation Map
Figure 4 – Areas with Elevated Concentrations of Petroleum Hydrocarbons and Arsenic
Attachment A – Pertinent Information from Previous Investigations
Attachment B – Boring Logs
Attachment C – Laboratory Reports
Attachment D – Methane Gas Monitoring Field Log

Distribution: (1) Addressee – electronic copy via email

References

Environmental Protection Agency (EPA), 2019, Regional Screening Levels (EPA-RSLs) Summary Table, dated April.

Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, 1996, Background Concentrations of Trace and Major Elements in California Soils, dated March.

TABLE 1 - LABORATORY RESULTS OF SOIL SAMPLES

Location and Rationale	Boring ID	Date Sampled	Sample Depth (feet bgs)	TPHcc (mg/kg)			VOCs (mg/kg)			Arsenic (mg/kg)
				TPHg C_6-C_{12}	TPHd C_{13}-C_{22}	TPHo C_{23}-C_{32}	Acetone	MEK	Other VOCs	
Assess the lateral extent of petroleum hydrocarbons (previous soil boring B12) and arsenic in the Area of Arsenic-Impacted Soil and historical drilling sumps	**A1**	05/17/19	5	ND<10	ND<10	**1,610**	ND<0.020	ND<0.020	ND<0.005-0.020	--
Assess the lateral extent of petroleum hydrocarbons (previous soil boring B12) and arsenic in the Area of Arsenic-Impacted Soil and historical drilling sumps	**A2**	05/17/19	5	**10.8**	**62.5**	**237**	**0.047**	ND<0.020	ND<0.005-0.020	**17.9**
Assess the lateral extent of petroleum hydrocarbons (previous soil boring B12) and arsenic in the Area of Arsenic-Impacted Soil and historical drilling sumps	**A3**	05/17/19	5	ND<5	**156**	**2,240**	**0.039**	ND<0.020	ND<0.005-0.020	**18.6**
Assess the lateral extent of petroleum hydrocarbons (previous soil boring B12) and arsenic in the Area of Arsenic-Impacted Soil and historical drilling sumps	**A4**	05/16/19	5	ND<10	**573**	**4,180**	ND<0.020	ND<0.020	ND<0.005-0.020	**54.7**
Assess the lateral extent of petroleum hydrocarbons (previous soil boring B12) and arsenic in the Area of Arsenic-Impacted Soil and historical drilling sumps	**A5**	05/16/19	5	ND<10	**196**	**2,270**	ND<0.020	ND<0.020	ND<0.005-0.020	**15.6**
Assess historical drilling sumps	**A6**	05/17/19	5	ND<10	ND<1	**2,160**	ND<0.020	ND<0.020	ND<0.005-0.020	--
Assess historical drilling sumps	**A7**	05/17/19	2.5	ND<1	ND<1	ND<1	ND<0.020	ND<0.020	ND<0.005-0.020	**17**
Assess historical drilling sumps	**A8**	05/17/19	5	ND<1	ND<1	ND<1	ND<0.020	ND<0.020	ND<0.005-0.020	**2.53**
Assess lateral extent of petroleum hydrocarbons associated with previous oil boring B25	**A9**	05/16/19	5	ND<5	**236**	**2,020**	**0.025**	ND<0.020	ND<0.005-0.020	**37**
Assess lateral extent of petroleum hydrocarbons associated with previous oil boring B25	**A10**	05/16/19	5	ND<10	**275**	**2,960**	**0.036**	ND<0.020	ND<0.005-0.020	**16.2**
General screening	**A11**	05/16/19	2.5	**116**	**2190**	**7,800**	**0.109**	ND<0.020	ND<0.005-0.020	**21.3**
General screening	**A12**	05/16/19	2.5	ND<10	ND<10	**808**	ND<0.020	ND<0.020	ND<0.005-0.020	**14.4**
General screening	**A13**	05/17/19	5	ND<1	ND<1	ND<1	ND<0.020	ND<0.020	ND<0.005-0.020	**3.34**
General screening	**A14**	05/17/19	2.5	ND<10	**103**	**2,570**	**0.065**	**0.020**	ND<0.005-0.020	**17.5**
General screening	**A15**	05/16/19	5	ND<1	ND<1	ND<1	ND<0.020	ND<0.020	ND<0.005-0.020	**3.23**
Regulatory Screening Levels - Protection of Human Health										
DTSC-SLi				NA	NA	NA	NA	NA	Various	0.36
EPA-RSLi				2,200	440	3,500,000	670,000	190,000	Various	3
Background for Arsenic				NA	NA	NA	NA	NA	NA	11

Notes:
Boring ID - Boring Identification
feet bgs- feet below the ground surface
mg/kg - milligrams per kilogram
ND - no detectable concentrations above the laboratory reporting limit
NA - not available
TPHcc - total petroleum hydrocarbons carbon chain C_6-C_{32} analyzed in general accordance with EPA Method No. 8015 (modified)
TPHg - total petroleum hydrocarbons as gasoline
TPHd - total petroleum hydrocarbons as diesel fuel
TPHo - total petroleum hydrocarbons as oil
VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B
Arsenic analyzed in general accordance with EPA Method No. 6010B
-- - not analyzed
DTSC-SLi - California Department of Toxic Substances Control, Human and Ecological Risk Office, Human Health Risk Assessment, Note 3, Screening Levels for industrial/commercial land use, dated April 2019
EPA-RSLi - Environmental Protection Agency (EPA), Regional Screening Levels for industrial/commercial land use, dated April 2019
Background for Arsenic -Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, Background Concentrations of Trace and Major Elements in California Soils, dated March 1996
for evaluating background concentrations of arsenic at Los Angeles Unified School District (LAUSD) school sites, dated June 6, 2005
LARWQCB - California Regional Water Quality Control Board, Los Angeles Region, Interim Site Assessment and Cleanup Guidebook, dated May 1996
Yellow highlight indicates cell exceeding background concentration of arsenic

TABLE 2 - LABORATORY RESULTS OF SOIL GAS SAMPLES

Boring ID	Date Sampled	Sample Depth (feet bgs)	VOCs (ug/l)													
			Benzene	Bromodichloro-methane	Chloroform	Ethylbenzene	Freon 113	Isopropyl-benzene	4-Isoporpyl-toulene	n-Propyl-benzene	Styrene	m,p-Xylene	o-Xylene	1,2,4-TMB	1,3,5-TMB	Toluene	Other VOCs
A1	05/21/19	5	ND<0.020	ND<0.020	ND<0.020	ND<0.020	ND<0.040	ND<0.020	ND<0.020	ND<0.020	ND<0.020	**0.085**	**0.024**	**0.021**	ND<0.020	**0.084**	ND<0.020-1.0
A2	05/21/19	5	**0.501**	ND<0.020	ND<0.020	**0.500**	ND<0.040	**0.058**	**0.06**	**0.103**	**0.026**	**2.07**	**0.525**	**0.424**	**0.148**	**2.81**	ND<0.020-1.0
A3	05/21/19	5	**0.206**	**0.021**	**0.026**	**0.562**	ND<0.040	**0.047**	**0.157**	**0.159**	**0.026**	ND<0.040	ND<0.020	**0.949**	**0.027**	**2.23**	ND<0.020-1.0
A4*	05/21/19	5	**0.046**	ND<0.020	ND<0.020	**0.145**	ND<0.040	ND<0.020	ND<0.020	ND<0.020	ND<0.020	**0.517**	**0.104**	**0.037**	ND<0.020	**0.489**	ND<0.020-1.0
A5	05/21/19	5	**0.141**	**0.021**	ND<0.020	**0.199**	ND<0.040	ND<0.020	**0.027**	**0.025**	ND<0.020	**0.802**	**0.192**	**0.117**	**0.100**	**1.11**	ND<0.020-1.0
A6	05/21/19	5	ND<0.020	ND<0.020	ND<0.020	ND<0.020	ND<0.040	ND<0.020	**0.057**	ND<0.020	ND<0.020	**0.043**	ND<0.020	ND<0.020	ND<0.020	**0.037**	ND<0.020-1.0
A7	05/21/19	5	ND<0.020	ND<0.020	ND<0.020	ND<0.020	ND<0.040	ND<0.020	ND<0.020	ND<0.020	ND<0.020	**0.036**	ND<0.020	**0.02**	ND<0.020	**0.027**	ND<0.020-1.0
A8	05/21/19	5	ND<0.020	ND<0.020	ND<0.020	ND<0.020	ND<0.040	ND<0.020	ND<0.020	ND<0.020	ND<0.020	**0.062**	ND<0.020		ND<0.020	**0.037**	ND<0.020-1.0
A9	05/21/19	5	ND<0.020	ND<0.020	ND<0.020	**0.045**	**0.054**	ND<0.020	ND<0.020	ND<0.020	ND<0.020	**0.802**	**0.192**	**0.117**	**0.100**	**0.172**	ND<0.020-1.0
A10	05/21/19	5	**0.032**	ND<0.020	ND<0.020	ND<0.020	ND<0.040	**0.149**	ND<0.020	ND<0.020	ND<0.020	ND<0.040	ND<0.020	ND<0.020	ND<0.020	**0.26**	ND<0.020-1.0
A10-REP	05/22/19	5	**0.033**	ND<0.020	ND<0.020	ND<0.020	ND<0.040	**0.147**	ND<0.020	ND<0.020	ND<0.020	ND<0.040	ND<0.020	ND<0.020	ND<0.020	**0.248**	ND<0.020-1.0
A11	05/21/19	5	ND<0.020	ND<0.020	ND<0.020	ND<0.020	**0.056**	ND<0.020	ND<0.020	ND<0.020	ND<0.020	**0.073**	**0.022**	**0.029**	ND<0.020	**0.054**	ND<0.020-1.0
A12	05/21/19	5	ND<0.020	ND<0.020	ND<0.020	**0.066**	ND<0.040	ND<0.020	ND<0.020	ND<0.020	ND<0.020	**0.264**	**0.063**	**0.033**	ND<0.020	**0.395**	ND<0.020-1.0
A13	05/21/19	5	ND<0.020	ND<0.020	ND<0.020	**0.027**	ND<0.040	ND<0.020	ND<0.020	ND<0.020	ND<0.020	**0.074**	**0.025**	**0.025**	ND<0.020	**0.038**	ND<0.020-1.0
A14	05/21/19	5	**0.098**	ND<0.020	ND<0.020	**0.075**	ND<0.040	ND<0.020	ND<0.020	**0.022**	**0.074**	**0.278**	**0.084**	**0.046**	ND<0.020	**0.549**	ND<0.020-1.0
A15	05/21/19	5	ND<0.020	ND<0.020	ND<0.020	ND<0.020	ND<0.040	ND<0.020	ND<0.020	ND<0.020	ND<0.020	**0.066**	**0.021**	**0.044**	ND<0.020	**0.033**	ND<0.020-1.0
Regulatory Screening Levels - Protection of Human Health																	
DTSC-SLi (0.03 Attenuation Factor)			0.014	0.043	NA	NA	NA	NA	NA	NA	130	NA	NA	NA	NA	43	Various
EPA-RSLi (0.03 Attenuation Factor)			0.053	0.011	0.018	0.16	NA	60	NA	146	146	14.6	14.6	8.6	8.6	733	Various

NOTES:
Boring ID - Boring Identification
feet bgs - feet below the ground surface
ug/l - micrograms per liter
VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B
ND - no detectable concentrations above the laboratory reporting limit
NA - not available
1,2,4-TMB - 1,2,4-trimethylbenzene
1,3,5-TMB - 1,3,5-trimethylbenzene
DTSC-SLi - California Department of Toxic Substances Control (DTSC), Human and Ecological Risk Office Note 3, for ambient air for industrial/commercial land use modified for soil gas using the EPA attenuation factor of 0.03 for residential land use (EPA does not maintain attenuation factors for industrial/commercial use), dated April 2019
EPA-RSLi - Environmental Protection Agency (EPA), Region 9, Regional Screening Levels for ambient air for industrial/commercial land use modified for soil gas using the EPA attenuation factor of 0.03 for residential land use (EPA does not maintain attenuation factors for industrial/commercial use), dated April 2019
* Tracer gasses discovered in sample suggesting breakthrough

TABLE 3 - FIELD MEASUREMENTS FROM METHANE GAS SURVEY

Boring ID	Measurement Date	Probe Depth (feet bgs)	Lithological Pressure (inches of water)	Methane (ppm)	Methane (%v)	Carbon Dioxide (%v)	Oxygen (%v)
A1	06/12/19	5	0	0	0	11.6	8.5
A2	06/12/19	5	0	0	0	2.2	18.9
A3	06/12/19	5	0	0	0	2.0	20.3
A4	06/12/19	5	0	4,000	0.4	0.7	20.7
A5	06/12/19	5	0	0	0	4.9	17.2
A6	06/12/19	5	0	1,000	0.1	6.1	14.0
A7	06/12/19	5	0	0	0	2.9	17.6
A8	06/12/19	5	0	0	0.1	11.0	5.9
A9	06/12/19	5	0	0	0	13.3	5.5
A10	06/12/19	5	0	1,000	0.1	10.5	7.2
A11	06/12/19	5	0	0	0	7.6	12.1
A12	06/12/19	5	0	0	0	6.2	13.7
A13	06/12/19	5	0	0	0	11.5	7.2
A14	06/12/19	5	0	0	0	4.0	17.2
A15	06/12/19	5	0	0	0	12.5	7.4

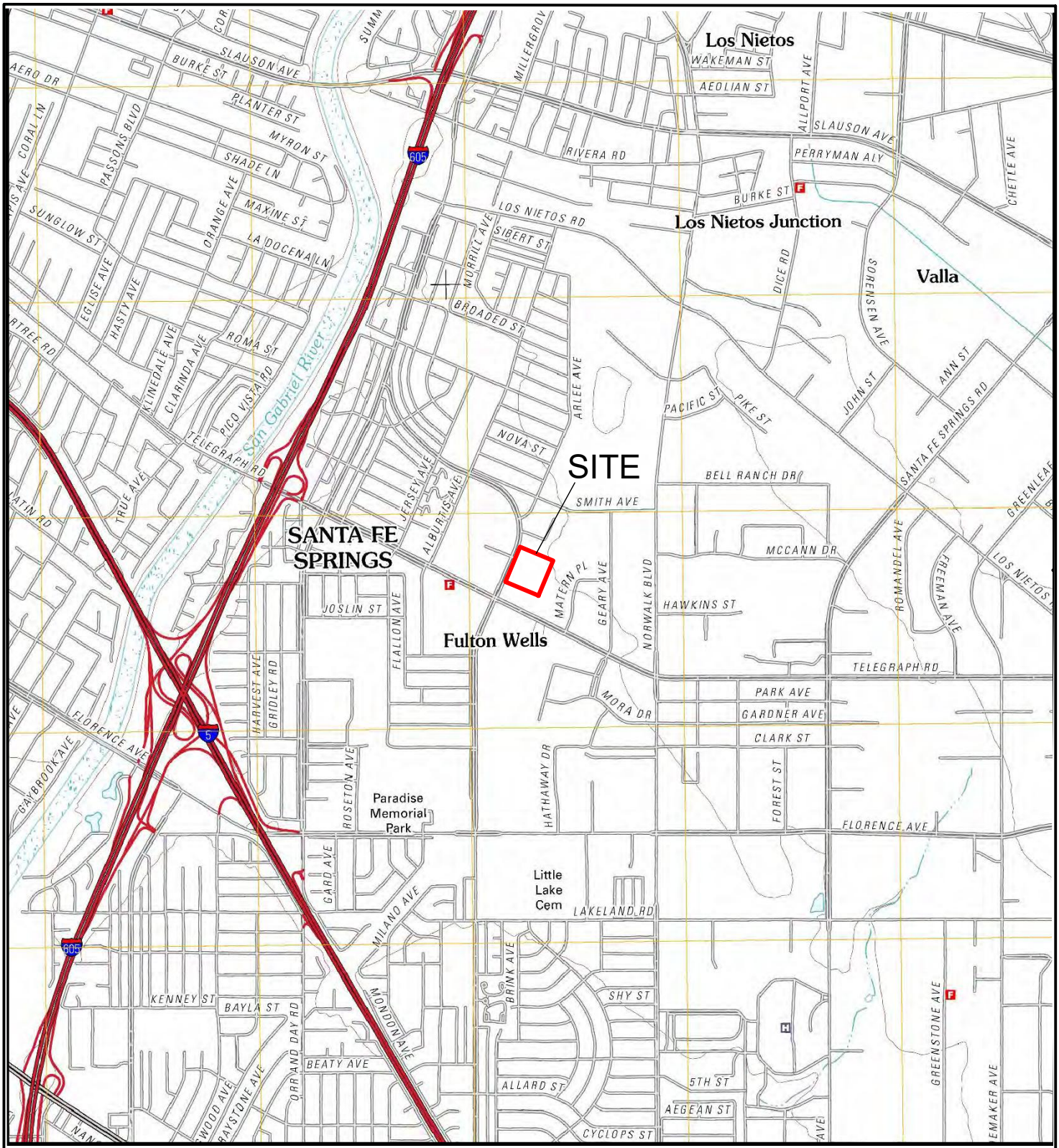
Notes:

Boring ID - Boring Identification

feet bgs - feet below ground surface

%v - percent of measured air by volume

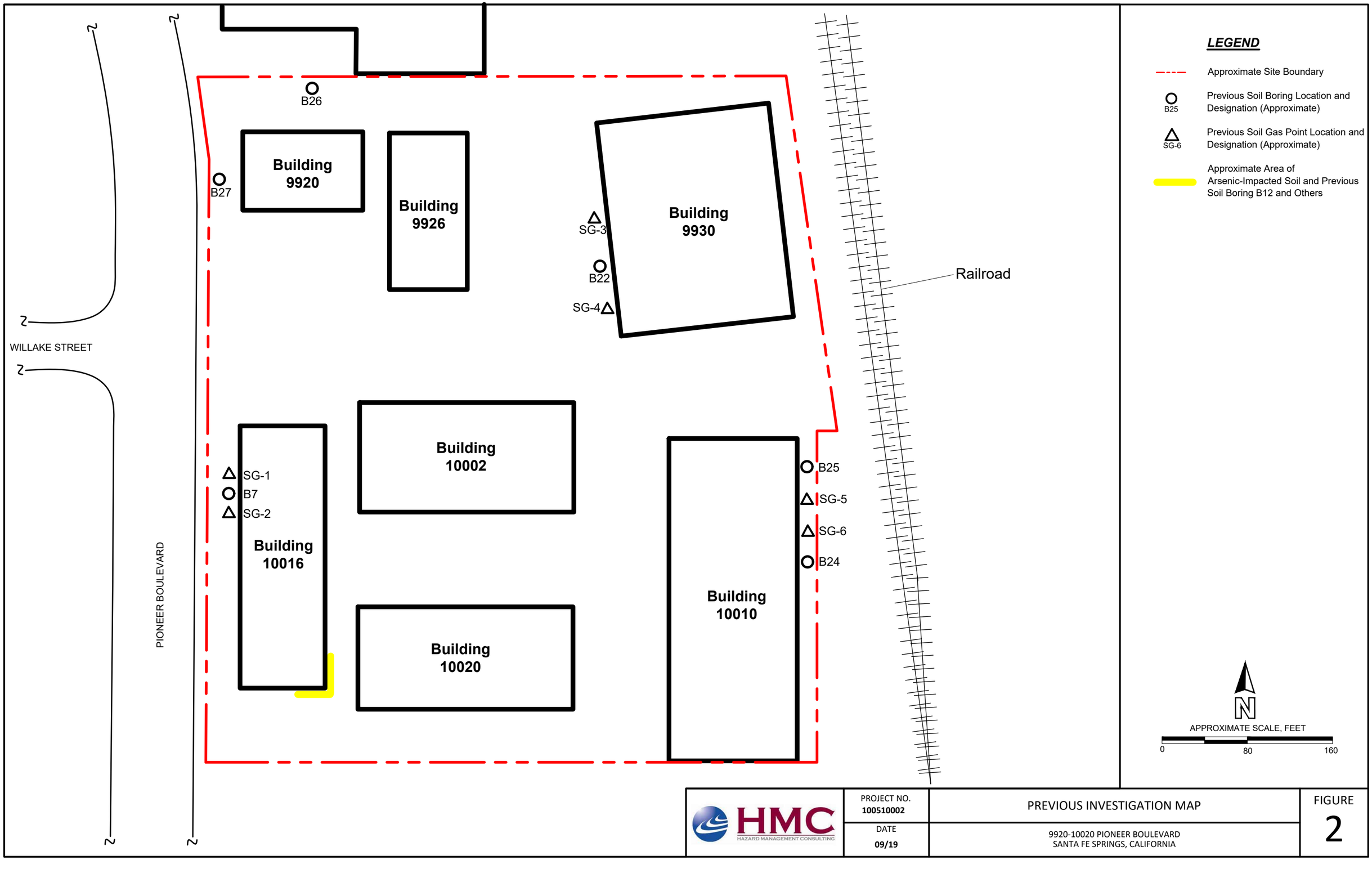
Measurements were collected with a Landtec GEM2000 field meter



Source: United States Geological Survey (USGS) 7.5 minute series, Santa Fe Springs, California, Topographic Quadrangle Map dated 2012

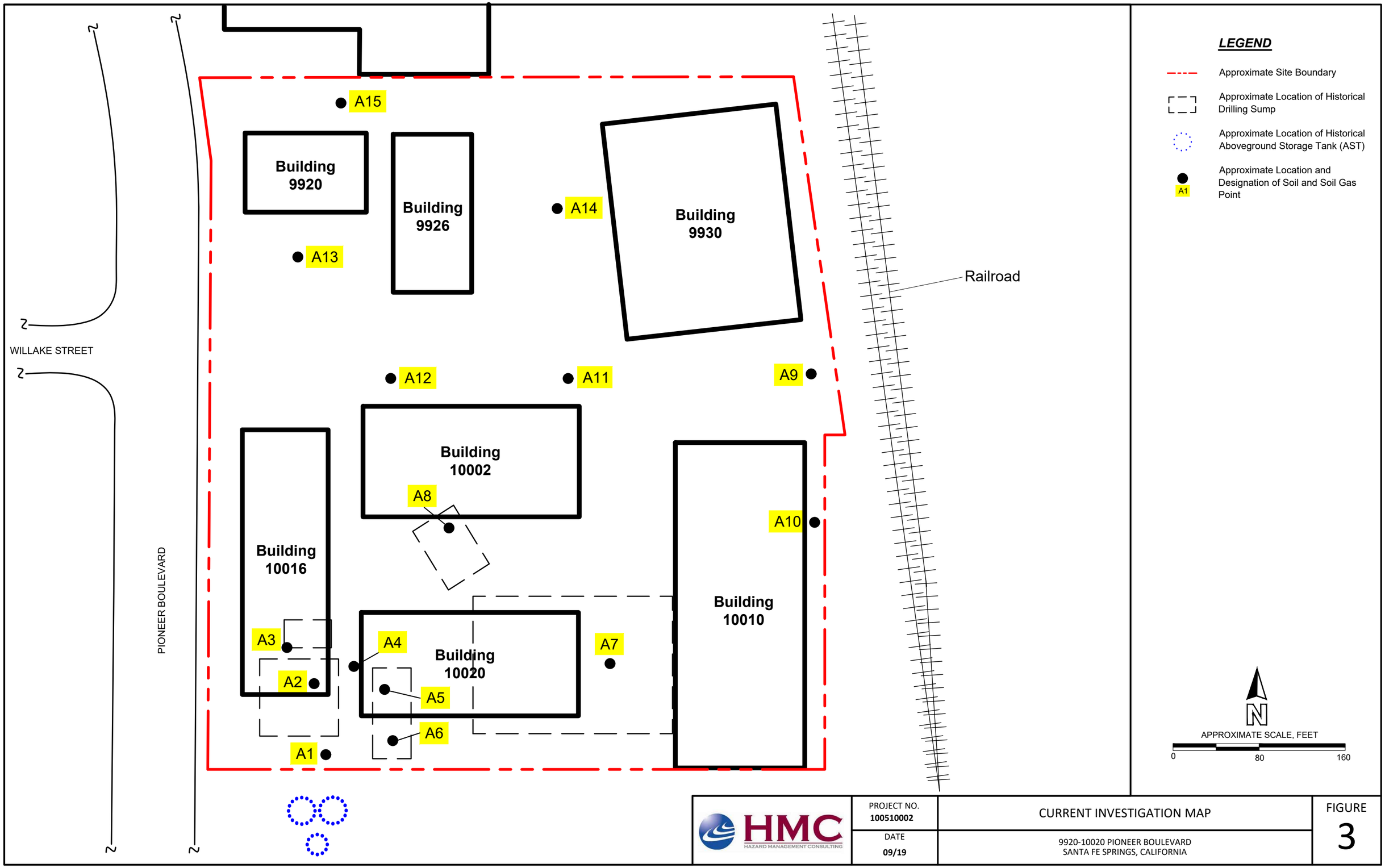
0 Miles 0.25 0.5 1 1.5

HMC HAZARD MANAGEMENT CONSULTING	PROJECT NO. **100510002**	**SITE LOCATION MAP**	FIGURE **1**
	DATE **09/19**	9920-10020 PIONEER BOULEVARD SANTA FE SPRINGS, CALIFORNIA	



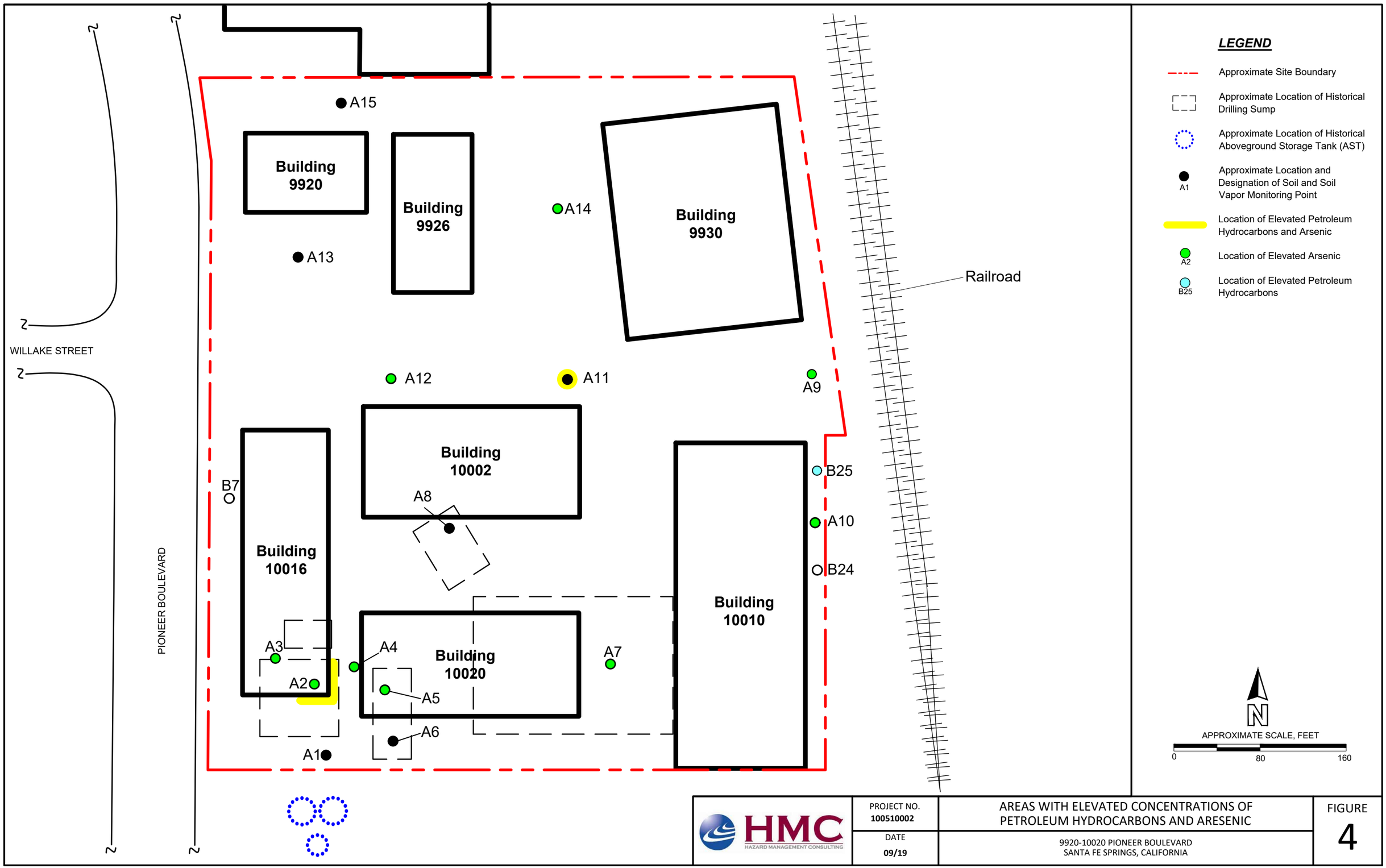
HMC HAZARD MANAGEMENT CONSULTING

PROJECT NO.	PREVIOUS INVESTIGATION MAP	FIGURE
100510002		2
DATE 09/19	9920-10020 PIONEER BOULEVARD SANTA FE SPRINGS, CALIFORNIA	



HMC HAZARD MANAGEMENT CONSULTING

PROJECT NO. 100510002	CURRENT INVESTIGATION MAP	FIGURE 3
DATE 09/19	9920-10020 PIONEER BOULEVARD SANTA FE SPRINGS, CALIFORNIA	



HMC HAZARD MANAGEMENT CONSULTING

PROJECT NO.	AREAS WITH ELEVATED CONCENTRATIONS OF PETROLEUM HYDROCARBONS AND ARESENIC	FIGURE
100510002		4
DATE	9920-10020 PIONEER BOULEVARD SANTA FE SPRINGS, CALIFORNIA	
09/19		

ATTACHMENT A

PERTINENT INFO FROM PREVIOUS INVESTIGATIONS

Table 4
Soil Gas Survey Results
Santa Fe Springs Commerce Center
9920-10020 Pioneer Boulevard
Santa Fe Springs, California 90670

Probe Number	Sample Depth (ft bgs[2])	Date	Time of Day (a.m.)	Maximum PID[3] Reading at Surface of Probe (ppm[4])	Concentration[1]				
					Methane (%LEL[5])	Oxygen (%VOL[6])	Carbon Dioxide (% VOL)	Hydrogen Sulfide (ppm)	PID (ppm)
SG-1	5	01/24/03	8:45	--	0	12.4	7.6	0	0
		02/03/03	10:13	0	0	11	8.2	0	0
SG-2	10	01/24/03	8:58	15	0	10.1	8.2	0	0
		02/03/03	10:15	0	0	13.2	5.5	0	0
SG-3	5	01/24/03	9:20	18	0	10.6	10.6	0	0
		02/03/03	10:32	0	0	13.9	7.7	0	0
SG-4	10	01/24/03	9:40	41	0	11.7	9.2	0	0
		02/03/03	10:37	0	0	12.7	9.8	0	3.5
SG-5	5	01/24/03	10:05	71	0	10.3	9.9	0	0
		02/03/03	10:52	0	0	10.6	9	0	0
SG-6	10	01/24/03	9:52	14	5	3.8	14.9	0	0
		02/03/03	10:46	0	2	10.7	9.8	0	0

Notes:

1. Methane, oxygen, carbon dioxide, and hydrogen sulfide were measured using an RKI Instruments Eagle LEL 4-Gas Meter.
2. ft bgs: Feet below ground surface
3. PID: Photoionization detector
4. ppm: Parts per million
5. %LEL: Percent of the lower explosive limit
6. %VOL: Percent by volume

Table 5
Analytical Results in Soil – VOCs
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Sample No. & Depth in Feet	Concentration (µg/kg)								
	1-4-Dichloro benzene	sec-Butyl benzene	tert-Butyl benzene	Ethyl benzene	Iso Propyl benzene	p-Iso Propyl benzene	Naphtha lene	n-Propyl benzene	1,2,4-Tri methyl benzene
ENVIRON Results (February 2003)									
SB-7-5	ND	ND	ND	ND	ND	ND	13.0	ND	ND
SB-7-10	ND	855	ND	ND	655	ND	1,210	564	ND
SB-7-15	ND	ND	ND	ND	ND	ND	17.9	ND	ND
SB-7-20	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-8-5	ND	7.4 J	ND	ND	12.5	ND	8.8 J	15.5	ND
SB-8-10	ND	848	50.9	ND	520	ND	6,680	896	5.1 J
SB-8-15	ND	27.9	ND	7.9 J	20.9	ND	220	17.2	ND
SB-8-20	ND	ND	ND	ND	ND	ND	27.5	ND	ND
SB-9-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-9-10	ND	74.3	6.2 J	ND	85.4	ND	142	142	ND
SB-9-15	ND	ND	ND	ND	ND	ND	7.0 J	ND	ND
SB-9-20	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-10-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-10-9	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-11-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-11-10	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-12-5	ND	5,000	303	4,890	4,370	55.0 J	42,400	7,370	ND
SB-12-10	ND	6,100	500 J	ND	6,440	ND	28,000	10,800	ND
SB-12-15	ND	1,840	134	ND	1,480	ND	13,400	1,500	ND
SB-12-20	ND	2,360	180	ND	1,670	ND	22,200	1,880	ND
SB-13-5	ND	10.8	ND	ND	12.1	ND	ND	10.6	ND
SB-13-9.5	ND	9.5 J	ND	ND	14.1	ND	ND	17.8	ND
SB-14-5	ND	ND	ND	ND	ND	7.7 J	17.0	ND	5.6 J
SB-14-10	ND	13.2	ND	ND	14.4	ND	ND	13.0	ND
SB-15-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-15-9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-15-24.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-15-28.5	ND	19.9	ND	ND	28.5 J	ND	549	35.0 J	ND
LFR Results (September 2003)									
B1-10	ND	ND	ND	ND	ND	ND	13,700	ND	ND
B2-35	ND	ND	ND	ND	ND	ND	1,160	ND	ND
B7-32	ND	ND	ND	ND	ND	ND	ND	ND	ND
B13-15	ND	ND	ND	ND	ND	3,160J	ND	18,400	ND
B13-55	ND	ND	ND	ND	ND	ND	ND	ND	ND

B14-10	13,900	2,160J	ND	2,150J	ND	ND	12,400	3,150	ND
B21-10	ND	ND	ND	ND	ND	ND	ND	ND	ND
B22-10	ND	ND	ND	ND	ND	ND	ND	ND	ND
B23-10	ND	ND	ND	ND	ND	ND	ND	ND	ND
B24-40	ND	ND	ND	ND	ND	ND	ND	ND	ND
B25-5	ND	ND	ND	ND	ND	ND	ND	ND	ND
LFR Results (January 2004)									
SB16-15.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB16-40	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB16-60	ND	ND	ND	ND	ND	ND	ND	ND	ND
Residential PRG	NE	NE	NE	8,900	NE	ND	NE	NE	52,000
Industrial PRG	NE	NE	NE	20,000	NE	ND	NE	NE	170,000
City: Upper 5 ft	NE	NE	NE	NE	NE	ND	NE	NE	NE
City: >5 ft (LARWQCB)	NE	NE	NE	700*	NE	ND	NE	NE	NE

Notes:

1. VOCs = Volatile organic compounds; analyzed using EPA Method 8260B.
2. Sample depth is in feet below ground surface.
2. µg/kg = Microgram per kilogram.
3. ENVIRON samples were analyzed by American Environmental Testing Lab; LFR's samples were analyzed by Associated Labs.
4. ND = Not detected.
5. J = Estimated value.
6. Also reported by the laboratory for Sample SB-12-5 were 3,240 µg/kg of n-butylbenzene and 310 µg/kg of 1,2,4-trimethylbenzene.
7. m,p-xylenes were reported by the laboratory for some of the samples; the highest reported concentration was 79.0 J for Sample SB-12-5.
8. PRG = Preliminary Remediation Goal.
9. City = City of Santa Fe Springs's Soil Screening Guidelines and Site Mitigation Procedures for Industrial Sites, dated April 24, 2002.
10. LARWQCB = Interim Site Assessment and Cleanup Guidebook, dated May 1996, developed by the California Regional Water Quality Control Board – Los Angeles Region. The City recommends that these guidelines be used for soil at depths of greater than 5 feet below ground surface.
11. NE = Not established.

* The 700 µg/kg concentration was obtained from the LARWQCB Guidebook using the conservative assumptions of sand lithology and depth to ground water at 20 feet below the soil sample. This value would be 2,000 µg/kg for a silt lithology.

Table 6
Analytical Results in Soil – TPH
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Sample No. & Depth in Feet	Concentration (mg/kg)			
	TPH-G C_4-C_{12}	TPH-D C_{13}-C_{22}	TPH-H_l C_{23}-C_{32}	TPH-H_h C_{33}-C_{40}
ENVIRON Results (February 2003)				
SB-7-10	392	4,790	3,020	1,270
SB-7-15	0.598 J	ND	ND	ND
SB-8-5	36.9 J	287	785	430
SB-8-10	565	3,950	1,970	873
SB-10-5	ND	ND	42.4	11.3
SB-10-9	ND	225	1,150	773
SB-11-5	ND	202	601	319
SB-11-10	ND	345	901	464
SB-12-5	2,520	21,500	10,100	2,620
SB-12-10	2,100	21,700	12,200	3,570
SB-12-15	570	3,120	1,250	191
SB-12-20	689	3,690	1,520	240
SB-13-5	4.07	174	547	345
SB-13-9.5	3.51	125	982	494
SB-14-5	2.33	757	1,230	468
SB-14-10	3.11	143	656	414
SB-15-5	0.500 J	20.6	54.7	22.3
SB-15-9.5	ND	170	599	361
SB-15-24.5	ND	ND	ND	ND
SB-15-28.5	167	3,120	1,810	631
LFR Results (September 2003)				
	TPH-G C_6-C_{10}	TPH-D C_{10}-C_{22}	TPH-H_l C_{22}-C_{36}	TPH-H_h
B1-10	ND	125	110	--
B1-35	ND	ND	ND	--
B1-38	ND	ND	ND	--
B2-35	ND	986	301	--
B2-45	ND	ND	ND	--
B7-15	ND	ND	ND	--
B7-32	ND	ND	ND	--
B13-15	1,900	5,100	4,400	--
B13-55	ND	ND	ND	--
B14-10	35	42	62	--
B14-30	ND	ND	ND	--
B21-10	14	3	ND	--
B21-30	ND	ND	ND	--
B22-10	ND	3.0	ND	--

Sample No. & Depth in Feet	Concentration (mg/kg)			
	TPH-G C_4-C_{12}	TPH-D C_{13}-C_{22}	TPH-H_l C_{23}-C_{32}	TPH-H_h C_{33}-C_{40}
B22-35	ND	3.8	ND	--
B23-10	ND	ND	ND	--
B23-25	ND	ND	ND	--
B23-28	14	3.4	ND	--
B24-15	ND	3.2	ND	--
B24-40	ND	ND	ND	--
B24-60	ND	ND	ND	--
B25-5	ND	3,200	21,200	--
B25-40	ND	ND	ND	--
LFR Results (January 2004)				
	TPH-G Gasoline Range	TPH-D C_{12}-C_{28}	TPH-H_l C_{28}-C_{40}	TPH-H_h
SB16-15.5	ND	ND	ND	--
SB16-40	ND	ND	ND	--
SB16-60	ND	ND	ND	--
Residential PRG	NE	NE	NE	NE
Industrial PRG	NE	NE	NE	NE
City: Upper 5 ft	100	1,000	10,000	NE
City: >5 ft (LARWQCB)	100	100	1,000	NE

Notes:

1. TPH = Total petroleum hydrocarbons, analyzed using EPA Method 8015 modified for carbon chain: TPH-G, as gasoline (carbon ranges C_4-C_{12} for the ENVIRON results and C_6-C_{10} for the LFR results); TPH-D, as diesel fuel (C_{13}-C_{22} for the ENVIRON results and C_{10}-C_{22} for the LFR results); TPH-H_l, as heavy hydrocarbons (C_{23}-C_{32} for the ENVIRON results and C_{22}-C_{36} for the LFR results; and TPH-H_h, as heavy hydrocarbons (C_{33}-C_{40} for the ENVIRON results).
2. Sample depth is in feet below ground surface.
3. mg/kg = Milligram per kilogram.
4. ENVIRON samples were analyzed by American Environmental Testing Lab; LFR's samples were analyzed by Associated Labs.
5. ND = Not detected.
6. J = Estimated value.
7. "--" = Not analyzed.
8. NE = Not established.
9. PRG = Preliminary Remediation Goal.
10. City = City of Santa Fe Springs's Soil Screening Guidelines and Site Mitigation Procedures for Industrial Sites, dated April 24, 2002.
11. LARWQCB = Interim Site Assessment and Cleanup Guidebook, dated May 1996, developed by the California Regional Water Quality Control Board – Los Angeles Region. The City recommends that these guidelines be used for soil at depths of greater than 5 feet below ground surface.

Table 7
Analytical Results in Soil – PAHs
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Sample No. & Depth in Feet	Concentration (mg/kg)						
	Benzo(b) fluoran thene	Anthra cene	Fluoran thene	Fluorene	Naphtha lene	Phenan threne	Pyrene
ENVIRON Results (February 2003)							
SB-7-10	ND	ND	0.040	ND	0.731	1.42	0.106
SB-8-10	0.416	0.276	0.071	5.77	5.30	2.96	0.193
SB-12-5	2.29	ND	0.269	4.10	23.6	8.95	0.307
SB-12-10	2.51	ND	0.137 J	2.22	9.44	5.91	0.196 J
LFR Results (September 2003)							
B13-10	ND	ND	ND	1.67	5.9	2.2	ND
B13-5	ND	ND	ND	0.159	0.733	ND	ND
B14-10	ND	ND	ND	0.689	1.46	1.05	ND
B14-5	ND	ND	ND	1.75	ND	ND	ND
LFR Results (January 2004)							
SB16-5.5	ND	ND	ND	ND	ND	ND	ND
SB16-10.5	ND	ND	ND	ND	ND	ND	ND
SB16-29.5	ND	ND	ND	ND	ND	ND	ND
Residential PRG	0.62	22,000	2,300	2,700	56	NE	2,300
Industrial PRG	2.1	100,000	22,000	26,000	190	NE	29,000

Notes:

1. PAHs = Polynuclear aromatic hydrocarbons; analyzed using EPA Method 8310.
2. Sample depth is in feet below ground surface.
3. mg/kg = Milligram per kilogram.
4. ENVIRON samples were analyzed by American Environmental Testing Lab; LFR's samples were analyzed by Associated Labs.
5. ND = Not detected.
6. J = Estimated value.
7. Also reported by the laboratory for Sample SB-12-5 were benzo(a)anthracene 5.72 mg/kg; benzo(a)pyrene 0.430 mg/kg; benzo(k)fluoranthene 0.212 mg/kg; chrysene 14.6 mg/kg; indeno(1,2,3-cd)pyrene 1.72 mg/kg; and acenaphthene 1.05 mg/kg.
8. Also reported by the laboratory for Sample SB-12-10 were benzo(a)anthracene 2.82 mg/kg; benzo(a)pyrene 0.294 mg/kg; chrysene 8.51 mg/kg; and acenaphthene 0.594 mg/kg.
9. NE = Not established.
10. PRG = Preliminary Remediation Goal.
11. City = City of Santa Fe Springs, Certified Unified Program Agency's Soil Screening Guidelines and Site Mitigation Procedures for Industrial Sites, dated April 24, 2002.
12. LARWQCB = Interim Site Assessment and Cleanup Guidebook, dated May 1996, developed by the California Regional Water Quality Control Board – Los Angeles Region. The City recommends that these guidelines be used for soil at depths of greater than 5 feet below ground surface.

Table 8
Analytical Results in Soil – Arsenic
Santa Fe Springs Commerce Center
10016 Pioneer Blvd.
Santa Fe Springs, CA 90670

Sample No. & Depth in Feet	Arsenic (mg/kg)	Arsenic DI Extract (mg/l)
ENVIRON Results (February 2003)		
SB-7-5	66.5	--
SB-7-10	ND	--
SB-8-10	ND	--
SB-8-10	ND	--
SB-9-5	ND	--
SB-9-10	ND	--
SB-10-5	5.25J	--
SB-11-5	ND	--
SB-12-5	ND	--
SB-12-10	ND	--
SB-12-20	ND	--
SB-13-5	12.5	--
SB-14-5	28.6	--
SB-15-5	33.9	--
LFR Results (September 2003)		
B3-5	4.8	--
B4-5	19.4	--
B4-10	10.7	--
B5-5	43	<0.05
B5-10	4.65	--
B6-5	5.17	--
B8-5	8.12	--
B9-5	6.06	--
B10-5	20	--
B11-5	12.3	--
B12-5	9.42	--
B15-5	16	--
B16-5	3.84	--
B17-5	4.02	--
B18-5	24.8	0.147
B18-10	4.46	--
B19-5	5.42	--
B20-5	7.41	--
B26-5	5.77	--
B27-5	8.2	--

Notes:

1. Arsenic analyses were performed using EPA Method 6010B.
2. Arsenic deionized water Waste Extraction Test (WET) analyses were performed using Method 6010/DI.
3. Sample depth is in feet below ground surface.
4. mg/kg = Milligram per kilogram
5. mg/l = Milligram per liter.
6. ENVIRON samples were analyzed by American Environmental Testing Lab; LFR's samples were analyzed by Associated Labs.
7. "--" = Not analyzed.
8. ND = Not detected.

Table 9
Analytical Results in Soil – Metals, Cyanide, and pH
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Metal	Concentration (mg/kg)								
	SB-7-5	SB-7-10	SB-8-5	SB-8-10	SB-9-5	SB-9-10	SB-12-10	Residential PRG	Industrial PRG
ENVIRON Results (February 2003)									
Antimony	ND	ND	ND	ND	ND	ND	ND	31	410
Arsenic	66.5	ND	ND	ND	ND	ND	ND	22/0.39*	260/1.6*
Barium	158	50.5	134	52.5	110	47.1	69.5	5,400	67,000
Beryllium	ND	ND	ND	ND	ND	ND	ND	150	1,900
Cadmium	ND	ND	ND	ND	ND	ND	ND	37	450
Chromium (Total)	16.2	8.20	13.2	8.10	15.0	7.60	11.1	210	450
Chromium VI (EPA Method 7196A)	ND	NA	ND	NA	NA	NA	NA	30	64
Cobalt	7.30	5.70	7.00	5.70	7.70	5.30	7.30	900	1,900
Copper	28.0	9.60	18.5	9.0	16.5	9.30	11.9	3,100	41,000
Lead	65.0	3.90J	20.4	3.10 J	28.4	ND	2.75 J	400	750
Mercury (EPA 7471)	ND	ND	ND	ND	ND	ND	ND	23 +	310 +
Molybdenum	ND	ND	ND	ND	ND	ND	ND	390	5,100
Nickel	11.9	7.50	108	7.30	11.3	7.30	10.8	1,600	20,000
Selenium	ND	ND	ND	ND	ND	ND	ND	390	5,100
Silver	ND	ND	ND	ND	ND	ND	ND	390	5,100
Thallium	ND	ND	ND	ND	ND	ND	ND	5.2	67
Vanadium	27.1	18.1	25.1	18.3	27.3	16.6	25.6	550	7,200
Zinc	86.5	27.1	62.5	27.6	49.8	25.7	37.3	23,000	100,000
Cyanide	ND	NA	ND	NA	NA	NA	NA	1,200/11**	12,000/35 **
pH	8.30	7.74	8.40	9.27	8.66	8.55	NA	NE	NE

Notes:

1. Metal analyses were performed using EPA Methods 6010B/7000, unless noted otherwise. Cyanide was analyzed using EPA Method 9014. pH was analyzed using EPA Method 9045C.
2. Sample depth is in feet below ground surface.
3. mg/kg = Milligram per kilogram.
4. ENVIRON samples were analyzed by American Environmental Testing Lab.
5. PRG = Preliminary Remediation Goal. The given values are from the latest update as of October 1, 2002.
6. ND = Not detected, at the detection limits shown in Appendix A.
7. NA = Not analyzed.
8. J = Estimated value.
9. NE = Not established.

* The PRGs for arsenic are for noncancer point and cancer point, respectively.

\+ The PRGs for mercury are for mercury chloride.

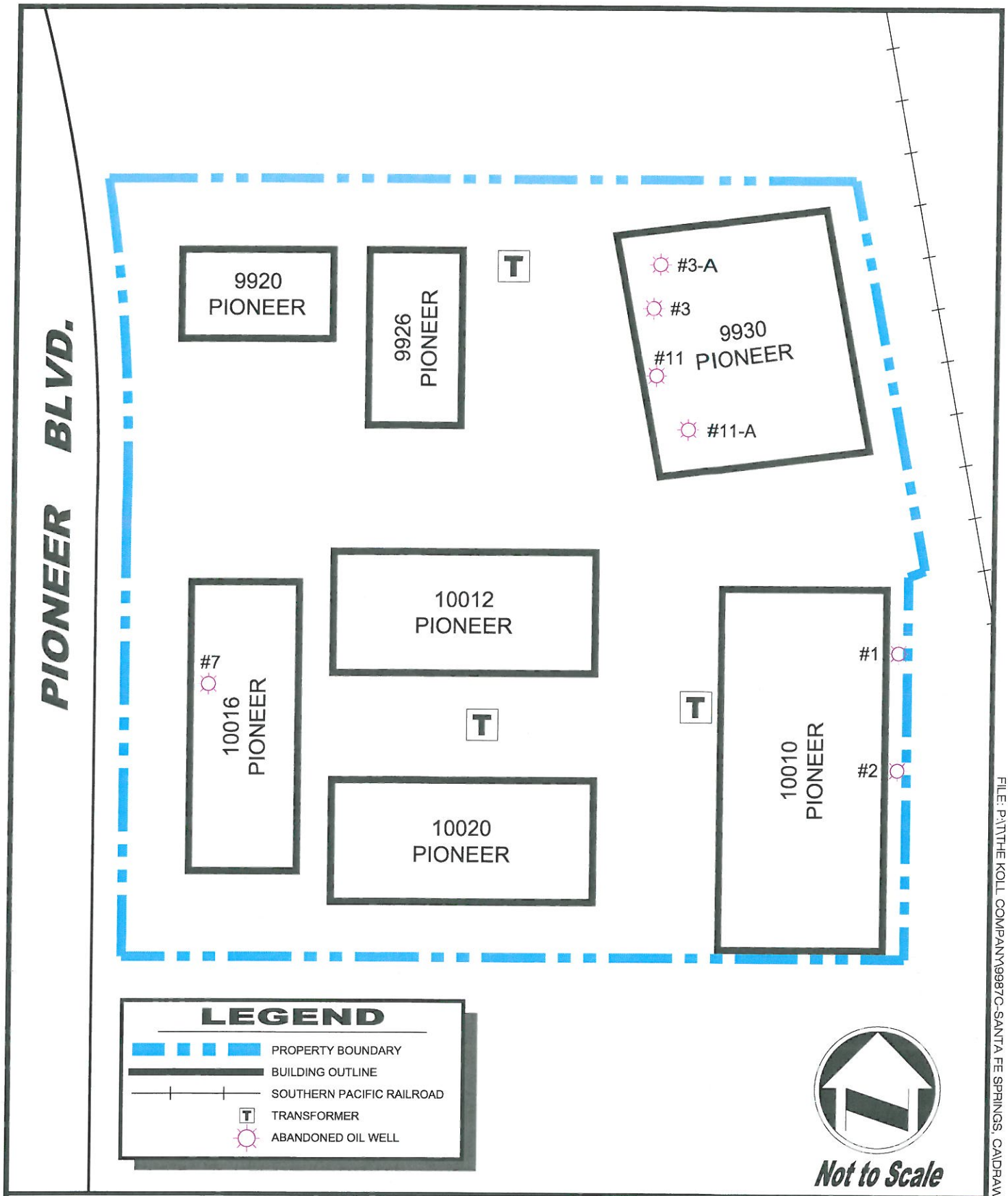
** The PRGs for cyanide are for free cyanide and hydrogen cyanide, respectively.

Table 10
Analytical Results in Ground Water – VOCs and TPH
Santa Fe Springs Commerce Center
10016 Pioneer Boulevard
Santa Fe Springs, California 90670

Sample No.	VOC Concentration (µg/l)		TPH Concentration (mg/l)		
	1,1,1-Trichloroethane	1,1-Dichloroethene	Gasoline Range	TPH-D C_{12}-C_{28}	TPH-H C_{28}-C_{40}
LFR Results (September 2003)					
B2	1.4J	1.3J	--	--	--
B24	ND	ND	--	--	--
LFR Results (January 2004)					
SB16	1.1	ND	ND	ND	ND
Primary MCL	200	6	NE	NE	NE

Notes:

1. VOCs = Volatile organic compounds; analyzed using EPA Method 8260B.
2. µg/l = Microgram per liter.
3. mg/l = Milligram per liter.
4. LFR's samples were analyzed by Associated Labs.
5. "--" = Not analyzed.
6. ND = Not detected.
7. J = Estimated value.
8. MCL = Maximum contaminant level, as established by the California Department of Health Services for drinking water.
9. NE = Not established.



ENVIRON

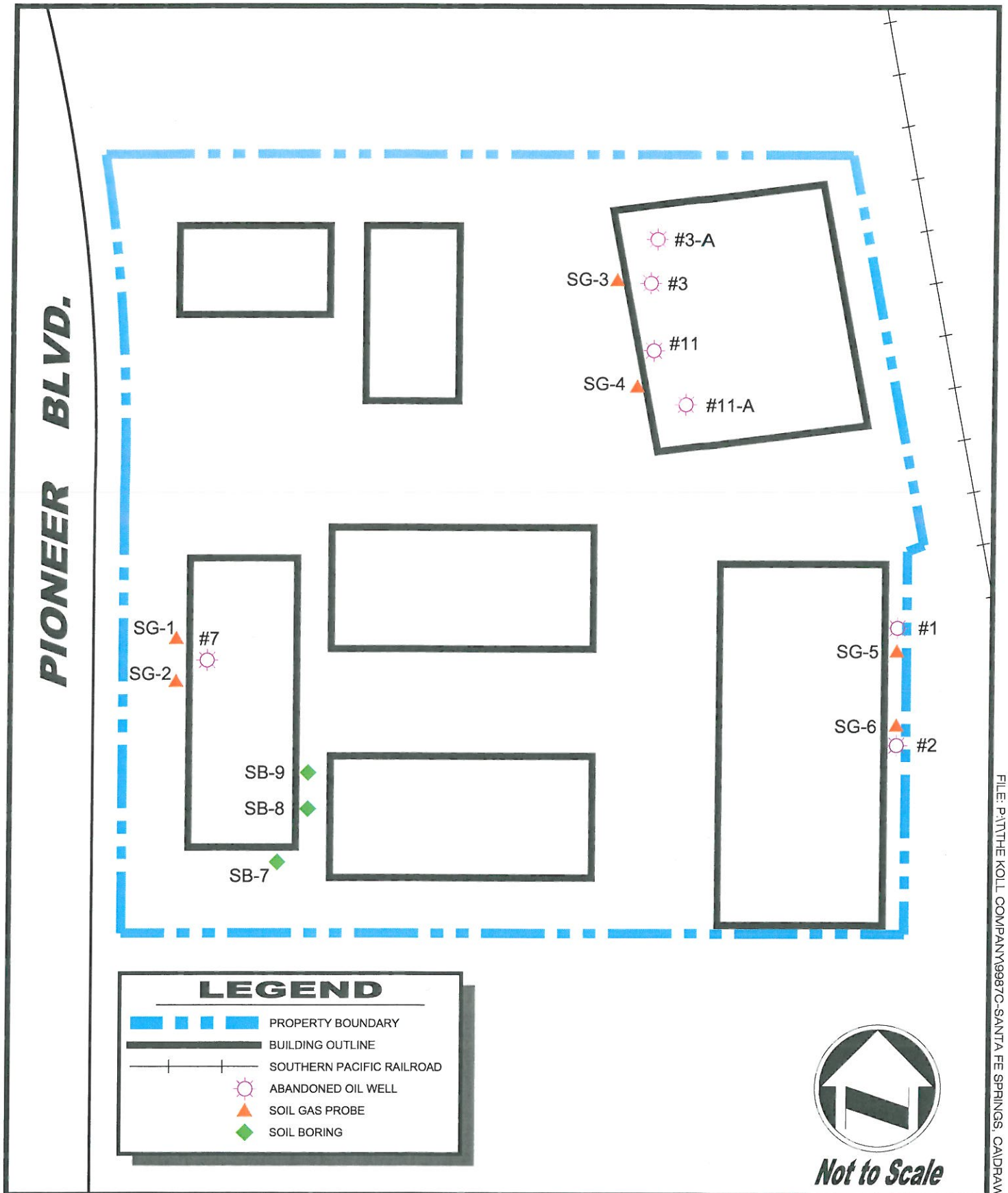
Site Plan

Santa Fe Springs Commerce Center
9920-10020 Pioneer Blvd., Santa Fe Springs, California

Figure 2

Drafter: JJC | Date: 1/29/03 | Contract Number: 04-9987C | Approved: | Revised: 2/10/04

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ENVIRON

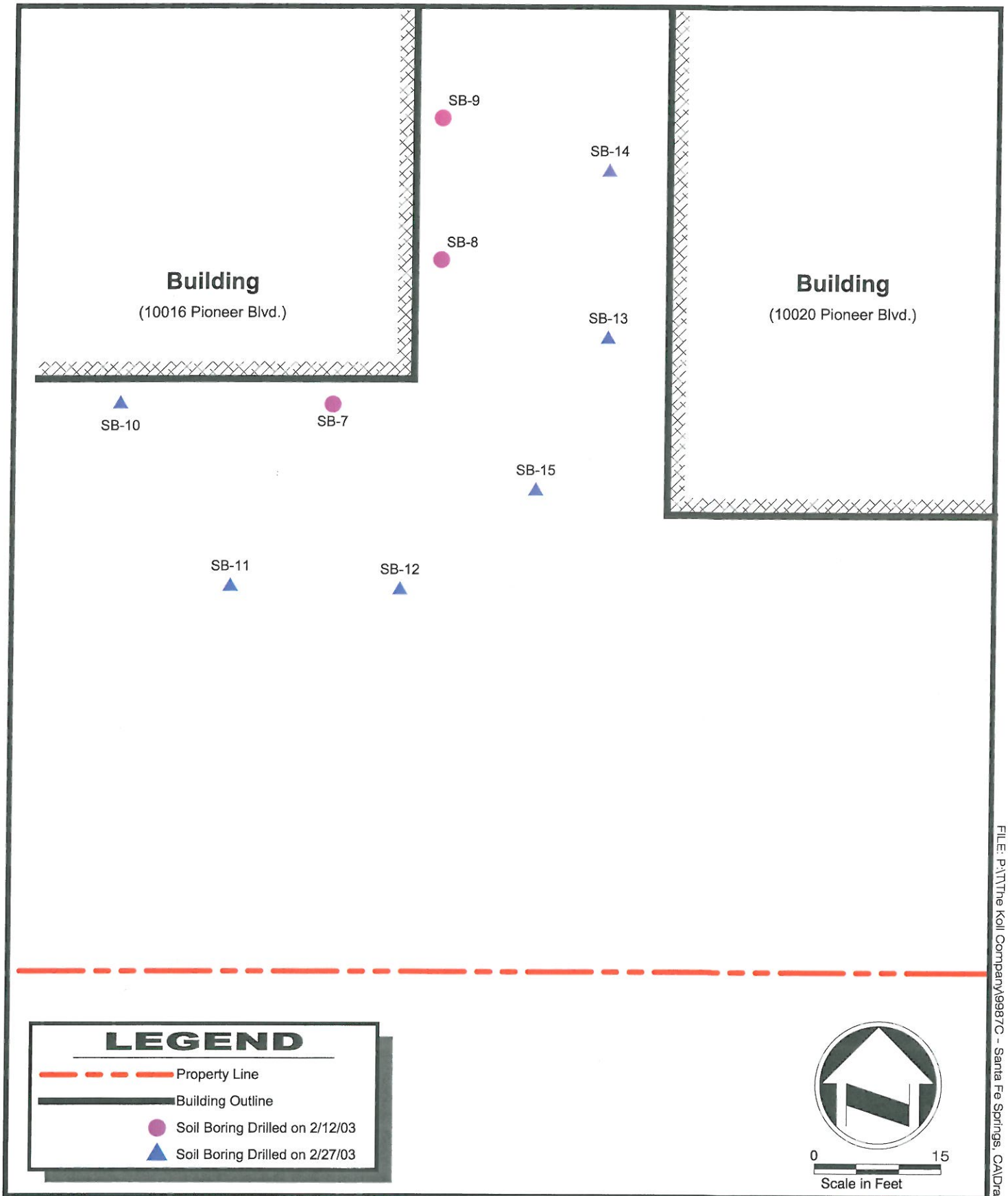
Phase II Sampling Location Plan

Santa Fe Springs Commerce Center
9920-10020 Pioneer Blvd., Santa Fe Springs, California

Figure 3

Drafter: JJC | Date: 2/13/03 | Contract Number: 04-9987C | Approved: | Revised: 2/10/04

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ENVIRON

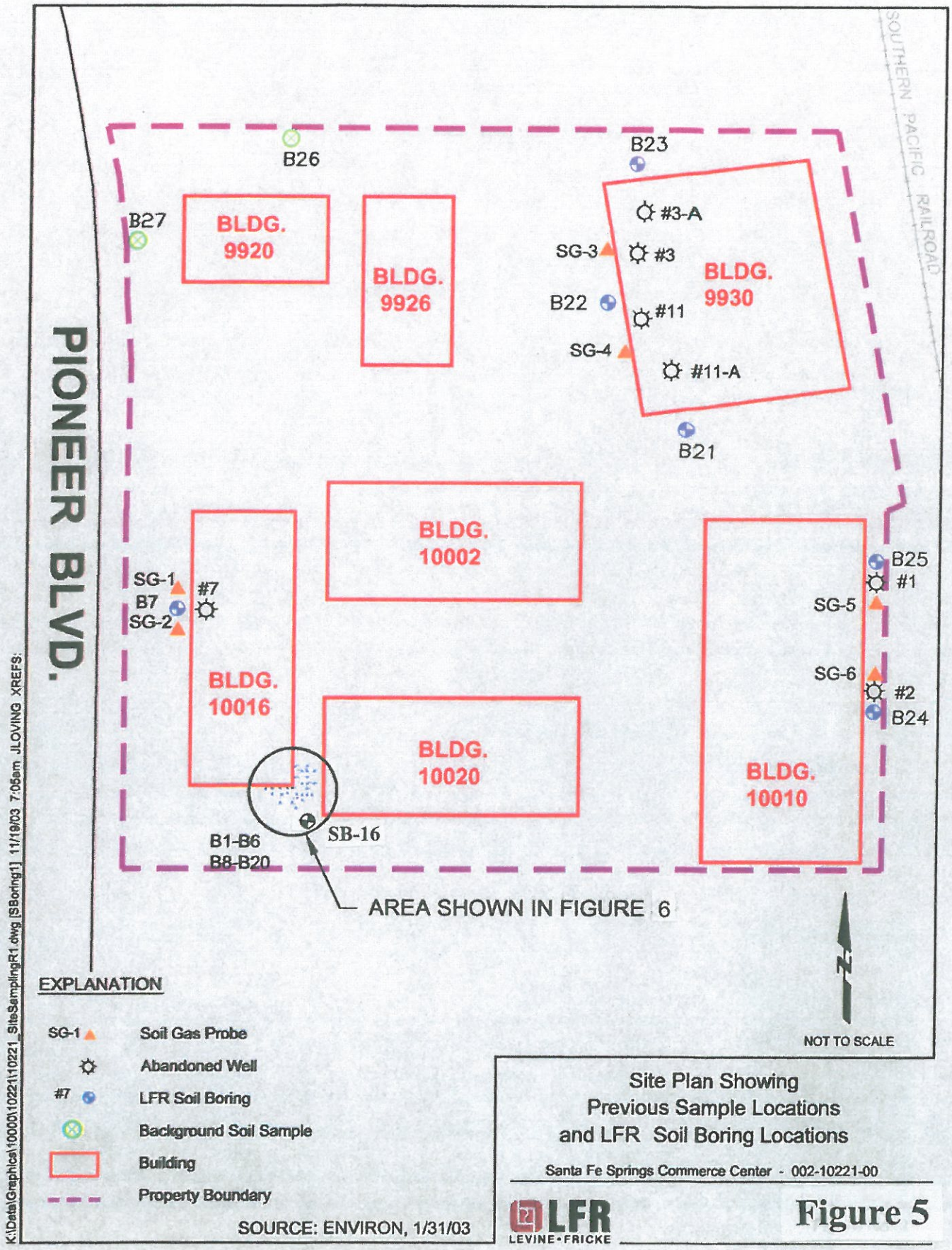
Phase II Soil Sampling Location Plan

Santa Fe Springs Commerce Center
9920-10020 Pioneer Blvd., Santa Fe Springs, California

Figure 4

Drafter: JJC Date: 2/05/04 Contract Number: 04-9987C Approved: Revised:

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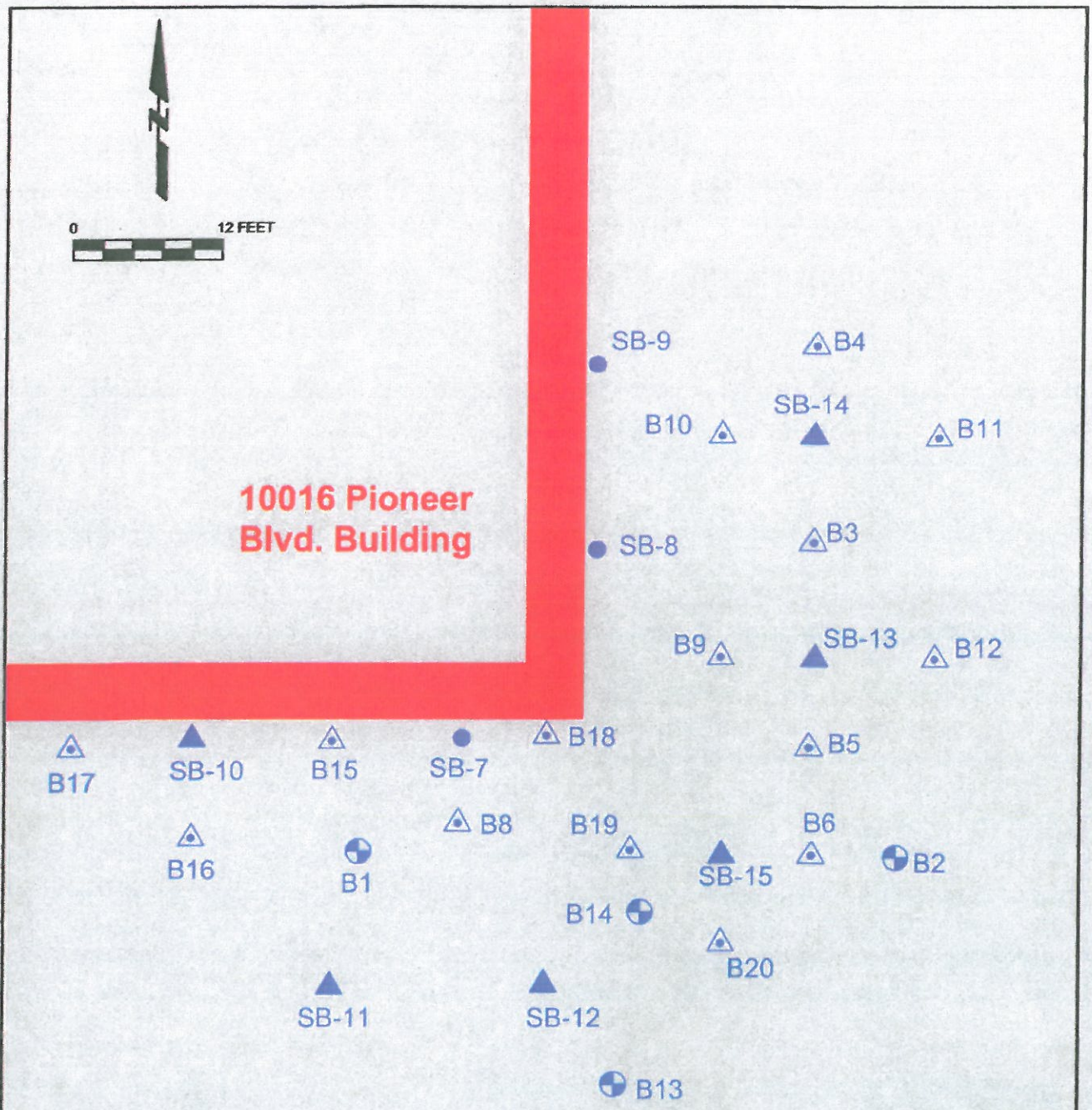
K:\Data\Graphics\10000\10221\10221_SiteSamplingR1.dwg [SBoring1] 11/19/03 7:05am JLOVING XREFS:

Site Plan Showing
Previous Sample Locations
and LFR Soil Boring Locations

Santa Fe Springs Commerce Center - 002-10221-00

LFR LEVINE-FRICKE

Figure 5



EXPLANATION

- SB-7 ● Soil Boring Drilled on 02/12/03 by Environ
- SG-10 ▲ Soil Boring Drilled on 02/27/03 by Environ
- LFR Soil Boring for TPH and VOC Delineation
- LFR Step-out Soil Boring for Arsenic Delineation
- Building

SOURCE: ENVIRON, 1/31/03

Previous Sample Locations and LFR Soil Boring Locations

Santa Fe Springs Commerce Center - 002-10221-00

LFR LEVINE • FRICKE

Figure 6

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ATTACHMENT B

BORING LOGS

BORING LOG EXPLANATION SHEET

DEPTH (feet)	SAMPLES: Bulk	SAMPLES: Driven	BLOWS/ FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	SYMBOL	CLASSIFICATION U.S.C.C.	
0								Bulk sample.
								Modified split-barrel drive sampler.
								No recovery with modified split-barrel drive sampler.
								Continuous push 2.25-inch O.D. (1.5-inch I.D.) sampler.
								No recovery with a continuous push sampler.
5			XX/XX					Continuous push 1.5-inch O.D. (1.0-inch I.D.) sampler.
								Hand auger or logged soil cuttings.
10								
							SM	ALLUVIUM: Solid line denotes actual change.
								Dashed line denotes approximate change.
15								Groundwater encountered during drilling.
								Groundwater measured after drilling.
20								The total depth line is a solid line that is drawn at the bottom of the boring

ARDENT ENVIRONMENTAL GROUP, INC.

BORING LOG

EXPLANATION OF BORING LOG SYMBOLS

PROJECT NO.	DATE	FIGURE

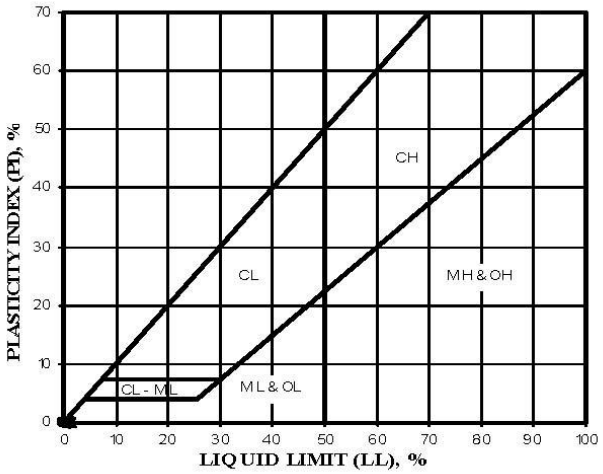
U.S.C.S. METHOD OF SOIL CLASSIFICATION

MAJOR DIVISIONS		SYMBOL	TYPICAL NAMES
COARSE-GRAINED SOILS (More than 1/2 of soil > No. 200 sieve size)	**GRAVELS (More than 1/2 of coarse fraction > No. 4 sieve size)**	GW	Well graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	SANDS (More than 1/2 of coarse fraction < No. 4 sieve size)	SW	Well graded sands or gravelly sands, little or no fines
		SP	Poorly graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (More than 1/2 of soil < No. 200 sieve size)	**SILTS & CLAYS Liquid limit < 50**	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fined sands or clayey silts
		CL	Inorganic clays of low to medium plasticity gravelly clays, sandy clays, silty clays, lean
		OL	Organic silts and organic silty clays of low plasticity
	SILTS & CLAYS Liquid limit > 50	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silty clays, organic silts
HIGHLY ORGANIC SOILS		PT	Peat and other highly organic soils

GRAIN SIZE CHART

CLASSIFICATION	RANGE OF GRAIN SIZE	
	U.S. Standard Sieve Size	Grain Size in Millimeters
BOULDERS	Above 12"	Above 305
COBBLES	12" to 3"	305 to 76.2
GRAVEL Coarse Fine	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 73.2 to 19.1 19.1 to 4.76
SAND Coarse Medium Fine	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.075 4.76 to 2.00 2.00 to 0.420 0.420 to 0.075
Silt & Clay	Below No. 200	Below 0.075

PLASTICITY



Ardent Environmental Group, Inc.
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Corona, California 92880
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BORING NUMBER A1

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 4220 Mule Direct Push
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0					0.3 3 inches ASPHALT.	Hydrated granular bentonite
			SP		(SP) Very pale orange (10 YR 8/2), moist, fine to medium SAND with trace fine gravel. 1.0	
					(ML) Moderate yellowish brown (10 YR 5/4), moist, SILT with minor fine sand.	
	A1-2.5	0.0				
			ML			Dry granular bentonite
5	A1-5	0.6			5.0	#2/12 sand

- No groundwater encountered.
- No stained or odorous soil noted.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

GENERAL BH / SOIL GAS - GINT STD US.GDT - 6/21/19 14:40 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\100510002 WL.GPJ

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BORING NUMBER A2

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0					0.3 4 inches CONCRETE.	
					(ML) Olive gray (5 Y 3/2), moist, SILT with minor fine sand, petroleum hydrocarbon odor noted from surface to 5 feet.	Hydrated granular bentonite
	A2-2.5	15.3	ML			
					Becomes dark gray (N3) from 4 to 5 feet.	Dry granular bentonite
5	A2-5	18.2			5.0	#2/12 sand

- No groundwater encountered.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

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Fax: 951-736-7560

BORING NUMBER A3

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0					0.3 4 inches CONCRETE.	
			ML		(ML) Moderate yellowish brown (10 YR 5/4), moist, SILT with minor fine sand, petroleum hydrocarbon odor noted.	Hydrated granular bentonite
	A3-2.5	7.6			2.5	
			CL		(CL) Moderate yellowish brown (10 YR 5/4), moist to wet, silty CLAY.	
					3.5	
			ML		(ML) Dark gray (N3), moist, SILT with minor fine sand, petroleum hydrocarbon odor noted.	Dry granular bentonite
5	A3-5	9.8			5.0	#2/12 sand

- No groundwater encountered.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

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BORING NUMBER A4

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 4220 Mule Direct Push
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0					0.3 4 inches ASPHALT.	
			ML		(ML) Moderate yelowish brown (10 YR 5/4), moist, SILT with minor fine sand.	Hydrated granular bentonite
	A4-2.5	6.7			2.5	
			CL		(CL) Moderate yellowish brown (10 YR 5/4), moist to wet, silty CLAY.	
					3.5	
			ML		(ML) Dark yellowish brown (10 YR 4/2), moist, SILT with minor fine sand. Becomes olive gray (5 Y 3/2) at 4.5 feet.	Dry granular bentonite #2/12 sand
5	A4-5	5.5			5.0	

- No groundwater encountered.
- No stained or odorous soil noted.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

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Fax: 951-736-7560

BORING NUMBER A5

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0					0.3 4 inches CONCRETE.	
					(ML) Moderate yellowish brown (10 YR 5/4), moist, SILT with minor fine sand.	Hydrated granular bentonite
	A5-2.5	2.2	ML			
					Becomes dark gray (N3), petroleum hydrocarbon odor from 3.5 to 5 feet.	Dry granular bentonite
5	A5-5	13.7			5.0	#2/12 sand

- No groundwater encountered.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

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BORING NUMBER A6

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 4220 Mule Direct Push
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0				0.3	3 inches ASPHALT.	Hydrated granular bentonite
			SP		(SP) Very pale orange (10 YR 8/2), moist, fine to medium SAND with trace fine gravel.	
				1.5		
	A6-2.5	0.0	ML		(ML) Moderate yellowish brown (10 YR 5/4), moist, SILT with minor fine sand.	Dry granular bentonite
5	A6-5	2.2		5.0		#2/12 sand

- No groundwater encountered.
- No stained or odorous soil noted.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

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Fax: 951-736-7560

BORING NUMBER A7

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 4220 Mule Direct Push
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES _____
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0					0.3 3 inches ASPHALT.	
			ML		(ML) Olive gray (5 Y 3/2), moist, SILT with minor fine sand, petroleum hydrocarbon odor noted. Becomes moderate yellowish brown (10 YR 5/4) at 1.5 feet.	Hydrated granular bentonite
	A7-2.5	1.4			3.0	
			SP		(SP) Very pale orange (10 YR 8/2), moist, fine to medium SAND, petroleum hydrocarbon odor noted.	Dry granular bentonite
5	A7-5	0.3			5.0	#2/12 sand

- No groundwater encountered.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

GENERAL BH / SOIL GAS - GINT STD US.GDT - 6/21/19 14:40 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\100510002 WL.GPJ

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Fax: 951-736-7560

BORING NUMBER A8

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 4220 Mule Direct Push
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES _____
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0					0.3 3 inches ASPHALT.	
					(ML) Moderate yellowish brown (10 YR 5/4), moist, SILT with minor fine sand.	Hydrated granular bentonite
	A8-2.5	0.7	ML			
					4.0	Dry granular bentonite
5	A8-5	0.7	SP		(SP) Very pale orange (10 YR 8/2), moist, fine to medium SAND. 5.0	#2/12 sand

- No groundwater encountered.
- No stained or odorous soil noted.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

GENERAL BH / SOIL GAS - GINT STD US.GDT - 6/21/19 14:40 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\100510002 WL.GPJ

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BORING NUMBER A9

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 4220 Mule Direct Push
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0				0.3	3 inches ASPHALT.	Hydrated granular bentonite
			SM	1.0	(SM) Moderate yellowish brown (10 YR 5/4), moist, silty fine SAND.	
					(ML) Olive gray (5 Y 3/2), moist, SILT with minor fine sand, petroleum hydocaron odor noted from 1 to 4 feet.	
	A9-2.5	3.9	ML		Trace fine gravel and glass shards at 3 to 3.5 feet.	Dry granular bentonite
5	A9-5	3.6		5.0		#2/12 sand

- No groundwater encountered.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

GENERAL BH / SOIL GAS - GINT STD US.GDT - 6/21/19 14:40 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\100510002 WL.GPJ

Ardent Environmental Group, Inc.
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Corona, California 92880
Telephone: 951-736-5334
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BORING NUMBER A10

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 4220 Mule Direct Push
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0				0.3	3 inches ASPHALT.	
					(ML) Moderate yellowish brown (10 YR 5/4), moist, SILT with minor fine sand with trace fine gravel from 4 to 5 feet.	Hydrated granular bentonite
	A10-2.5	0.1	ML			
						Dry granular bentonite
5	A10-5	6.1		5.0	Becomes olive gray (5 Y 3/2), petroleum hydrocarbon odor from 4.5 to 5 feet.	#2/12 sand

- No groundwater encountered.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

GENERAL BH / SOIL GAS - GINT STD US.GDT - 6/21/19 14:40 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\100510002 WL.GPJ

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Fax: 951-736-7560

BORING NUMBER A11

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 4220 Mule Direct Push
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0					0.3 3 inches ASPHALT.	
			ML		(ML) Moderate yellowish brown (10 YR 5/4), moist, SILT with minor fine SAND. 1.0	
			SM		(SM) Moderate yellowish brown (10 YR 5/4), moist, silty fine SAND. 2.0	Hydrated granular bentonite
	A11-2.5	11.3	ML		(ML) Dark gray (N3), moist, SILT with minor fine sand, petroleum hydrocarbon odor noted. Becomes moderate yellowish brown (10 YR 5/4) at 3.5 feet, petroleum hydrocarbon odor noted. 4.0	Dry granular bentonite
5	A11-5	2.9	SM		(SM) Moderate yellowish brown (10 YR 5/4), moist, silty fine SAND. 5.0	#2/12 sand

- No groundwater encountered.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

GENERAL BH / SOIL GAS - GINT STD US.GDT - 6/21/19 14:40 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\100510002 WL.GPJ

Ardent Environmental Group, Inc.
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Fax: 951-736-7560

BORING NUMBER A12

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 4220 Mule Direct Push
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0					0.3 3 inches ASPHALT.	
					(ML) Moderate yellowish brown (10 YR 5/4), moist, SILT with minor fine sand. Becomes olive gray (5 Y 3/2), petroleum hydrocarbon odor noted from 1 to 4 feet.	Hydrated granular bentonite
	A12-2.5	2.3	ML			
					Becomes moderate yellowish brown (10 YR 5/4) at 4 feet.	Dry granular bentonite
5	A12-5	2.2			5.0	#2/12 sand

- No groundwater encountered.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

GENERAL BH / SOIL GAS - GINT STD US.GDT - 6/21/19 14:40 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\100510002 WL.GPJ

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1827 Capital Street, Suite 103
Corona, California 92880
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER A13

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 4220 Mule Direct Push
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0					0.3 3 inches ASPHALT.	
			ML		(ML) Moderate yellowish brown (10 YR 5/4), moist, SILT with minor fine sand. 2.0	Hydrated granular bentonite
	A13-2.5	15.2	SM		(SM) Moderate yellowish brown (10 YR 5/4), moist, silty fine SAND. Becomes dark yellowish brown (10 YR 4/2) from 3 to 4 feet.	Dry granular bentonite
5	A13-5	10.2			Becomes moderate yellowish brown (10 YR 5/4) from 4 to 5 feet. 5.0	#2/12 sand

- No groundwater encountered.
- No stained or odorous soil noted.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

GENERAL BH / SOIL GAS - GINT STD US.GDT - 6/21/19 14:40 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\100510002 WL.GPJ

Ardent Environmental Group, Inc.
1827 Capital Street, Suite 103
Corona, California 92880
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER A14

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 4220 Mule Direct Push
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0					0.3 3 inches ASPHALT.	
					(ML) Dark yellowish brown (10 YR 4/2), moist, SILT with minor fine sand.	
	A14-2.5	3.3	ML			Hydrated granular bentonite
5	A14-5	2.2			5.0	Dry granular bentonite; #2/12 sand

- No groundwater encountered.
- No stained or odorous soil noted.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

GENERAL BH / SOIL GAS - GINT STD US.GDT - 6/21/19 14:40 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\100510002 WL.GPJ

Ardent Environmental Group, Inc.
1827 Capital Street, Suite 103
Corona, California 92880
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER A15

CLIENT Hazard Management Consulting, Inc.
PROJECT NAME HMC - Pioneer
PROJECT NUMBER 100510002
PROJECT LOCATION 9920-10020 Pioneer Blvd, Santa Fe Springs, CA
DATE STARTED 6/10/19 **COMPLETED** 6/10/19
GROUND ELEVATION _____ **HOLE SIZE** 2.25-inches
DRILLING CONTRACTOR Core Probe International
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 4220 Mule Direct Push
AT TIME OF DRILLING ---
LOGGED BY Ricardo Munoz **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	SOIL GAS SAMPLING PROBE DIAGRAM
0					0.3 3 inches ASPHALT.	
					(ML) Dark yellowish brown (10 YR 4/2), moist, fine sandy SILT.	Hydrated granular bentonite
	A15-2.5	2.5	ML			
						Dry granular bentonite
					4.5	#2/12 sand
5	A15-5	1.5	SM		5.0 (SM) Moderate yellowish brown (10 YR 5/4), moist, silty fine SAND.	

- No groundwater encountered.
- No stained or odorous soil noted.
- Soil vapor monitoring point constructed of 0.25-inch diameter Nylaflow tubing.
- Bottom of borehole at 5.0 feet.

GENERAL BH / SOIL GAS - GINT STD US.GDT - 6/21/19 14:40 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\100510002 WL.GPJ

ATTACHMENT C

LABORATORY REPORTS

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Hazard Management Consulting	**Report date:**	6/17/2019
Client Address:	211 W. Avienda Cordoba #200	**Jones Ref. No.:**	D-1646
	San Clemente, CA	**Client Ref. No.:**	100520002
Attn:	Ricardo Munoz	**Date Sampled:**	6/12/2019
		Date Received:	6/12/2019
Project:	HMC - Pioneer	**Date Analyzed:**	6/12/2019
Project Address:	10020 Pioneer Blvd	**Physical State:**	Soil Gas
	Santa Fe Springs, CA		

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. Tracer was detected in sample D-1646-05, and was confirmed with re-analysis.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of collection.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Hazard Management Consulting	**Report date:**	6/17/2019
Client Address:	211 W. Avienda Cordoba #200	**Jones Ref. No.:**	D-1646
	San Clemente, CA	**Client Ref. No.:**	100520002
Attn:	Ricardo Munoz	**Date Sampled:**	6/12/2019
		Date Received:	6/12/2019
Project:	HMC - Pioneer	**Date Analyzed:**	6/12/2019
Project Address:	10020 Pioneer Blvd	**Physical State:**	Soil Gas
	Santa Fe Springs, CA		

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**A1-5'**	**A6-5'**	**A3-5'**	**A2-5'**	**A4-5'**		
Jones ID:	**D-1646-01**	**D-1646-02**	**D-1646-03**	**D-1646-04**	**D-1646-05**	**Reporting Limit**	**Units**
Analytes:							
Benzene	ND	ND	**0.206**	**0.501**	**0.046**	0.020	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	**0.021**	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.030	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.030	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.030	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	**0.026**	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.030	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.030	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.040	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.025	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**A1-5'**	**A6-5'**	**A3-5'**	**A2-5'**	**A4-5'**		
Jones ID:	**D-1646-01**	**D-1646-02**	**D-1646-03**	**D-1646-04**	**D-1646-05**	**Reporting Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	**0.562**	**0.500**	**0.145**	0.020	µg/L
Freon 113	ND	ND	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.060	µg/L
Isopropylbenzene	ND	ND	**0.047**	**0.058**	ND	0.020	µg/L
4-Isopropyltoluene	ND	**0.057**	**0.157**	**0.060**	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	**0.159**	**0.103**	ND	0.020	µg/L
Styrene	ND	ND	**0.026**	**0.026**	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.040	µg/L
Tetrachloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Toluene	**0.084**	**0.037**	**2.23**	**2.81**	**0.489**	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.040	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	**0.021**	ND	**0.949**	**0.424**	**0.037**	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	**0.270**	**0.148**	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	µg/L
m,p-Xylene	**0.085**	**0.043**	**2.73**	**2.07**	**0.517**	0.040	µg/L
o-Xylene	**0.024**	ND	**0.735**	**0.525**	**0.104**	0.020	µg/L
MTBE	ND	ND	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	1.00	µg/L
Gasoline Range Organics (C4-C12)	ND	ND	**13.3**	**15.7**	ND	5.00	µg/L
Tracer:							
n-Pentane	ND	ND	ND	ND	**81.0E**	0.200	µg/L
n-Hexane	ND	ND	ND	ND	**101E**	0.200	µg/L
n-Heptane	ND	ND	ND	ND	**205E**	0.200	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	106%	106%	102%	93%	60%	60 - 140	
Toluene-d_8	109%	106%	102%	101%	108%	60 - 140	
4-Bromofluorobenzene	97%	98%	94%	98%	100%	60 - 140	
Batch ID:	D1-061219-01	D1-061219-01	D1-061219-01	D1-061219-01	D1-061219-01		

ND = Value below reporting limit

E = Estimated value exceeds calibration range

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Hazard Management Consulting	**Report date:**	6/17/2019
Client Address:	211 W. Avienda Cordoba #200	**Jones Ref. No.:**	D-1646
	San Clemente, CA	**Client Ref. No.:**	100520002
Attn:	Ricardo Munoz	**Date Sampled:**	6/12/2019
		Date Received:	6/12/2019
Project:	HMC - Pioneer	**Date Analyzed:**	6/12/2019
Project Address:	10020 Pioneer Blvd	**Physical State:**	Soil Gas
	Santa Fe Springs, CA		

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**A8-5'**	**A7-5'**	**A12-5'**	**A11-5'**	**A13-5'**		
Jones ID:	**D-1646-06**	**D-1646-07**	**D-1646-08**	**D-1646-09**	**D-1646-10**	**Reporting Limit**	**Units**
Analytes:							
Benzene	ND	ND	**0.049**	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.030	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.030	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.030	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.030	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.030	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.040	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.025	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**A8-5'**	**A7-5'**	**A12-5'**	**A11-5'**	**A13-5'**		
Jones ID:	**D-1646-06**	**D-1646-07**	**D-1646-08**	**D-1646-09**	**D-1646-10**	**Reporting Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	**0.066**	ND	**0.027**	0.020	µg/L
Freon 113	ND	ND	ND	**0.056**	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.060	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.040	µg/L
Tetrachloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Toluene	**0.037**	**0.027**	**0.395**	**0.054**	**0.038**	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.040	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	**0.020**	**0.033**	**0.029**	**0.025**	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	µg/L
m,p-Xylene	**0.062**	**0.036**	**0.264**	**0.073**	**0.074**	0.040	µg/L
o-Xylene	ND	ND	**0.063**	**0.022**	**0.025**	0.020	µg/L
MTBE	ND	ND	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	1.000	µg/L
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	5.000	µg/L
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	0.200	µg/L
n-Hexane	ND	ND	ND	ND	ND	0.200	µg/L
n-Heptane	ND	ND	ND	ND	ND	0.200	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	101%	105%	102%	106%	104%	60 - 140	
Toluene-d_8	104%	109%	107%	108%	95%	60 - 140	
4-Bromofluorobenzene	94%	94%	95%	95%	57%@	60 - 140	
Batch ID:	D1-061219-01	D1-061219-01	D1-061219-01	D1-061219-01	D1-061219-01		

ND = Value below reporting limit
@ = Surrogate outside acceptable limits. All other QC parameters in control, therefore data was accepted

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Hazard Management Consulting	**Report date:**	6/17/2019
Client Address:	211 W. Avienda Cordoba #200	**Jones Ref. No.:**	D-1646
	San Clemente, CA	**Client Ref. No.:**	100520002
Attn:	Ricardo Munoz	**Date Sampled:**	6/12/2019
		Date Received:	6/12/2019
Project:	HMC - Pioneer	**Date Analyzed:**	6/12/2019
Project Address:	10020 Pioneer Blvd	**Physical State:**	Soil Gas
	Santa Fe Springs, CA		

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**A5-5'**	**A9-5'**	**A10-5'**	**A10-5' REP**	**A14-5'**		
Jones ID:	**D-1646-11**	**D-1646-12**	**D-1646-13**	**D-1646-14**	**D-1646-15**	**Reporting Limit**	**Units**
Analytes:							
Benzene	**0.141**	ND	**0.032**	**0.033**	**0.098**	0.020	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromodichloromethane	**0.021**	ND	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.030	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.030	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.030	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.030	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.030	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.040	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.025	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**A5-5'**	**A9-5'**	**A10-5'**	**A10-5' REP**	**A14-5'**		
Jones ID:	**D-1646-11**	**D-1646-12**	**D-1646-13**	**D-1646-14**	**D-1646-15**	**Reporting Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
Ethylbenzene	**0.199**	**0.045**	ND	ND	**0.075**	0.020	µg/L
Freon 113	ND	**0.054**	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.060	µg/L
Isopropylbenzene	ND	ND	**0.149**	**0.147**	ND	0.020	µg/L
4-Isopropyltoluene	**0.027**	ND	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.100	µg/L
n-Propylbenzene	**0.025**	ND	ND	ND	**0.022**	0.020	µg/L
Styrene	ND	ND	ND	ND	**0.074**	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.040	µg/L
Tetrachloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Toluene	**1.11**	**0.172**	**0.260**	**0.248**	**0.549**	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.040	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	**0.117**	**0.059**	ND	ND	**0.046**	0.020	µg/L
1,3,5-Trimethylbenzene	**0.100**	ND	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	µg/L
m,p-Xylene	**0.802**	**0.210**	ND	ND	**0.278**	0.040	µg/L
o-Xylene	**0.192**	**0.054**	ND	ND	**0.084**	0.020	µg/L
MTBE	ND	ND	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	1.00	µg/L
Gasoline Range Organics (C4-C12)	**14.8**	ND	**25.7**	**24.2**	ND	5.00	µg/L
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	0.200	µg/L
n-Hexane	ND	ND	ND	ND	ND	0.200	µg/L
n-Heptane	ND	ND	ND	ND	ND	0.200	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	107%	102%	103%	104%	105%	60 - 140	
Toluene-d_8	103%	106%	120%	125%	108%	60 - 140	
4-Bromofluorobenzene	97%	95%	115%	121%	97%	60 - 140	
Batch ID:	D1-061219-01	D1-061219-01	D1-061219-01	D1-061219-01	D1-061219-01		

ND = Value below reporting limit

JONES ENVIRONMENTAL, INC.

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Hazard Management Consulting	**Report date:**	6/17/2019
Client Address:	211 W. Avienda Cordoba #200	**Jones Ref. No.:**	D-1646
	San Clemente, CA	**Client Ref. No.:**	100520002
Attn:	Ricardo Munoz	**Date Sampled:**	6/12/2019
		Date Received:	6/12/2019
Project:	HMC - Pioneer	**Date Analyzed:**	6/12/2019
Project Address:	10020 Pioneer Blvd	**Physical State:**	Soil Gas
	Santa Fe Springs, CA		

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID: **A15-5'**

Jones ID: **D-1646-16**

Analytes:		**Reporting Limit**	**Units**
Benzene	ND	0.020	µg/L
Bromobenzene	ND	0.020	µg/L
Bromodichloromethane	ND	0.020	µg/L
Bromoform	ND	0.020	µg/L
n-Butylbenzene	ND	0.030	µg/L
sec-Butylbenzene	ND	0.030	µg/L
tert-Butylbenzene	ND	0.030	µg/L
Carbon tetrachloride	ND	0.020	µg/L
Chlorobenzene	ND	0.020	µg/L
Chloroform	ND	0.020	µg/L
2-Chlorotoluene	ND	0.030	µg/L
4-Chlorotoluene	ND	0.030	µg/L
Dibromochloromethane	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	0.020	µg/L
Dibromomethane	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	0.040	µg/L
1,3-Dichlorobenzene	ND	0.040	µg/L
1,4-Dichlorobenzene	ND	0.040	µg/L
Dichlorodifluoromethane	ND	0.020	µg/L
1,1-Dichloroethane	ND	0.020	µg/L
1,2-Dichloroethane	ND	0.020	µg/L
1,1-Dichloroethene	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	0.020	µg/L
1,2-Dichloropropane	ND	0.020	µg/L
1,3-Dichloropropane	ND	0.020	µg/L
2,2-Dichloropropane	ND	0.040	µg/L
1,1-Dichloropropene	ND	0.025	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**A15-5'**		
Jones ID:	**D-1646-16**	**Reporting Limit**	**Units**
Analytes:			
cis-1,3-Dichloropropene	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	0.020	µg/L
Ethylbenzene	ND	0.020	µg/L
Freon 113	ND	0.040	µg/L
Hexachlorobutadiene	ND	0.060	µg/L
Isopropylbenzene	ND	0.020	µg/L
4-Isopropyltoluene	ND	0.020	µg/L
Methylene chloride	ND	0.020	µg/L
Naphthalene	ND	0.100	µg/L
n-Propylbenzene	ND	0.020	µg/L
Styrene	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	0.040	µg/L
Tetrachloroethene	ND	0.020	µg/L
Toluene	**0.033**	0.020	µg/L
1,2,3-Trichlorobenzene	ND	0.040	µg/L
1,2,4-Trichlorobenzene	ND	0.040	µg/L
1,1,1-Trichloroethane	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	0.020	µg/L
Trichloroethene	ND	0.020	µg/L
Trichlorofluoromethane	ND	0.040	µg/L
1,2,3-Trichloropropane	ND	0.020	µg/L
1,2,4-Trimethylbenzene	**0.044**	0.020	µg/L
1,3,5-Trimethylbenzene	ND	0.020	µg/L
Vinyl chloride	ND	0.020	µg/L
m,p-Xylene	**0.066**	0.040	µg/L
o-Xylene	**0.021**	0.020	µg/L
MTBE	ND	0.100	µg/L
Ethyl-tert-butylether	ND	0.100	µg/L
Di-isopropylether	ND	0.100	µg/L
tert-amylmethylether	ND	0.100	µg/L
tert-Butylalcohol	ND	1.00	µg/L
Gasoline Range Organics (C4-C12)	ND	5.00	µg/L
Tracer:			
n-Pentane	ND	0.200	µg/L
n-Hexane	ND	0.200	µg/L
n-Heptane	ND	0.200	µg/L
Dilution Factor	1		
Surrogate Recoveries:		**QC Limits**	
Dibromofluoromethane	107%	60 - 140	
Toluene-d_8	109%	60 - 140	
4-Bromofluorobenzene	96%	60 - 140	
Batch ID:	D1-061219-01		

ND = Value below reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Hazard Management Consulting	**Report date:**	6/17/2019
Client Address:	211 W. Avienda Cordoba #200	**Jones Ref. No.:**	D-1646
	San Clemente, CA	**Client Ref. No.:**	100520002
Attn:	Ricardo Munoz	**Date Sampled:**	6/12/2019
		Date Received:	6/12/2019
Project:	HMC - Pioneer	**Date Analyzed:**	6/12/2019
Project Address:	10020 Pioneer Blvd	**Physical State:**	Soil Gas
	Santa Fe Springs, CA		

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**	**SAMPLING BLANK**		
Jones ID:	**061219-DMB1**	**061219-D1SB1**	**Reporting Limit**	**Units**
Analytes:				
Benzene	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	0.020	µg/L
Bromoform	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	0.030	µg/L
sec-Butylbenzene	ND	ND	0.030	µg/L
tert-Butylbenzene	ND	ND	0.030	µg/L
Carbon tetrachloride	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	0.020	µg/L
Chloroform	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	0.030	µg/L
4-Chlorotoluene	ND	ND	0.030	µg/L
Dibromochloromethane	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	0.040	µg/L
1,3-Dichlorobenzene	ND	ND	0.040	µg/L
1,4-Dichlorobenzene	ND	ND	0.040	µg/L
Dichlorodifluoromethane	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	0.040	µg/L
1,1-Dichloropropene	ND	ND	0.025	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	METHOD BLANK	SAMPLING BLANK		
Jones ID:	061219-DMB1	061219-D1SB1	**Reporting Limit**	**Units**
Analytes:				
cis-1,3-Dichloropropene	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	0.020	µg/L
Freon 113	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	0.060	µg/L
Isopropylbenzene	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	0.020	µg/L
Naphthalene	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	0.020	µg/L
Styrene	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	0.040	µg/L
Tetrachloroethene	ND	ND	0.020	µg/L
Toluene	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	0.040	µg/L
1,2,4-Trichlorobenzene	ND	ND	0.040	µg/L
1,1,1-Trichloroethane	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	0.040	µg/L
1,2,3-Trichloropropane	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	0.040	µg/L
o-Xylene	ND	ND	0.020	µg/L
MTBE	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	1.00	µg/L
Gasoline Range Organics (C4-C12)	ND	ND	5.00	µg/L
Tracer:				
n-Pentane	ND	ND	0.200	µg/L
n-Hexane	ND	ND	0.200	µg/L
n-Heptane	ND	ND	0.200	µg/L
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	101%	100%	60 - 140	
Toluene-d_8	107%	108%	60 - 140	
4-Bromofluorobenzene	91%	99%	60 - 140	
Batch ID:	D1-061219-01	D1-061219-01		

ND = Value below reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Hazard Management Consulting	**Report date:**	6/17/2019
Client Address:	211 W Avenida Cordoba #200 San Clemente, CA	**Jones Ref. No.:** **Client Ref. No.:**	D-1646 100520002
Attn:	Ricardo Munoz	**Date Sampled:** **Date Received:**	6/12/2019 6/12/2019
Project:	HMC - Pioneer	**Date Analyzed:**	6/12/2019
Project Address:	10020 Pioneer Blvd Santa Fe Springs, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Batch ID: D1-061219-01

Jones ID:	**061219-D1LCS1**	**061219-D1LCSD1**			**061219-D1CCV1**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	94%	94%	0.7%	60 - 140	82%	80 - 120
1,1-Dichloroethene	102%	111%	8.5%	60 - 140	101%	80 - 120
Cis-1,2-Dichloroethene	120%	128%	6.5%	70 - 130	100%	80 - 120
1,1,1-Trichloroethane	112%	117%	4.3%	70 - 130	100%	80 - 120
Benzene	110%	117%	5.5%	70 - 130	97%	80 - 120
Trichloroethene	112%	114%	1.5%	70 - 130	95%	80 - 120
Toluene	117%	119%	1.7%	70 - 130	106%	80 - 120
Tetrachloroethene	125%	116%	7.3%	70 - 130	101%	80 - 120
Chlorobenzene	122%	124%	1.9%	70 - 130	104%	80 - 120
Ethylbenzene	123%	122%	1.3%	70 - 130	104%	80 - 120
1,2,4 Trimethylbenzene	128%	124%	3.0%	70 - 130	108%	80 - 120
Gasoline Range Organics (C4-C12)	120%	120%	0.6%	70 - 130	104%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	104%	105%		60 - 140	96%	60 - 140
Toluene-d_8	107%	104%		60 - 140	109%	60 - 140
4-Bromofluorobenzene	96%	97%		60 - 140	97%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

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Soil-Gas Chain-of-Custody Record

Client: Hazard Management Consulting
Project Name: HMC-Pioneer
Project Address: 10020 Pioneer Blvd
Santa Fe Springs, CA
Email:
Phone:
Report To: Ricardo Munoz
Sampler:

Date: 6/12/2019
Client Project #: 100520002

Purge Number: □ 1P ☒ 3P □ 7P □ 10P
Shut-In Test: (Y) / N

Report Options
EDD ____
EDF* - 10% Surcharge____
*Global ID _____

Turn Around Requested
- □ Immediate Attention
- □ Rush 24 Hours
- □ Rush 48 Hours
- □ Rush 72 Hours
- □ Normal
- ☒ Mobile Lab

Tracer
- ☒ n-pentane
- ☒ n-hexane
- ☒ n-heptane
- □ Isopropyl Alchohol
- □ 1,1-DFA
- □ _____

Reporting Limits
☒ Standard □ Low Level* □ MDL* *surcharge for these limits

Units ug/L

LAB USE ONLY
Jones Project # D-1646

Page 1 of 2

Sample Container: GASTIGHT GLASS SYRINGE
If different than above, see Notes.

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)	Gasoline Range Organics			Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
A1-5'	3	1270	6/12/19	7:08	7:13	D-1646-01	200	EXTRA.1	TSS 118003	SG	X	X			<2	1	
A6-5'	3	1270	6/12/19	7:21	7:30	D-1646-02	200	STEVE.2	M100.107	SG	X	X			<2	1	
A3-5'	3	1270	6/12/19	10:33	10:41	D-1646-03	200	EXTRA.1	TSS 118003	SG	X	X			4	1	RERUN FOR TRACER
A2-5'	3	1270	6/12/19	7:54	8:04	D-1646-04	200	STEVE.2	M100.107	SG	X	X			10	1	
A4-5'	3	1270	6/12/19	10:11	10:24	D-1646-05	200	EXTRA.1	TSS 118003	SG	X	X			18	1	RERUN FOR TRACER
A8-5'	3	1270	6/12/19	9:09	9:16	D-1646-06	200	STEVE.2	M100.107	SG	X	X			<2	1	
A7-5'	3	1270	6/12/19	9:25	9:33	D-1646-07	200	EXTRA.1	TSS 118003	SG	X	X			20	1	
A12-5'	3	1270	6/12/19	9:45	9:50	D-1646-08	200	STEVE.2	M100.107	SG	X	X			<2	1	
A11-5'	3	1270	6/12/19	9:56	10:07	D-1646-09	200	EXTRA.1	TSS 118003	SG	X	X			<2	1	
A13-5'	3	1270	6/12/19	10:52	10:58	D-1646-10	200	STEVE.2	M100.107	SG	X	X			<2	1	

10 Total Number of Containers

Representative Signature: [signature] **Printed Name:** Casey Statton **Time:** 1:13pm
Company: HMC **Date:** 6-12-19

Laboratory Signature: [signature] **Printed Name:** Annalise OTarre
Company: JONES ENVIRONMENTAL, INC. **Date:** 6/12/2019

Representative Signature: **Printed Name:** **Time:**
Company: **Date:**

Laboratory Signature: **Printed Name:** **Time:**
Company: **Date:**

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

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Soil-Gas Chain-of-Custody Record

Client: Hazard Management Consulting
Project Name: HMC-Pioneer
Project Address: 10020 Pioneer Blvd
Santa Fe Springs, CA
Email:
Phone:
Report To: Ricardo Munoz
Sampler:

Date: 6/12/2019
Client Project #: 100520002

Purge Number: ☐ 1P ☑ 3P ☐ 7P ☐ 10P
Shut-In Test: (Y) / N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID _____

LAB USE ONLY
Jones Project # D-1646

Page 2 of 2
Sample Container: GASTIGHT GLASS SYRINGE
If different than above, see Notes.

Turn Around Requested
- ☐ Immediate Attention
- ☐ Rush 24 Hours
- ☐ Rush 48 Hours
- ☐ Rush 72 Hours
- ☐ Normal
- ☑ Mobile Lab

Tracer
- ☑ n-pentane
- ☑ n-hexane
- ☑ n-heptane
- ☐ Isopropyl Alchohol
- ☐ 1,1-DFA
- ☐ _____

Reporting Limits
☒ Standard ☐ Low Level* ☐ MDL* *surcharge for these limits

Units: ug/L

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)	Gasoline Range Organics			Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
A5-5'	3	1270	6/12/19	11:06	11:15	D-1646-11	200	EXTRA.1	TSS 118003	SG	X	X			<2	1	
A9-5'	3	1270	6/12/19	11:27	11:32	D-1646-12	200	STEVE.2	M100.107	SG	X	X			<2	1	
A10-5'	3	1270	6/12/19	11:41	11:49	D-1646-13	200	EXTRA.1	TSS 118003	SG	X	X			4	1	
A10-5' REP	3	1270	6/12/19	11:58	12:06	D-1646-14	200	EXTRA.1	TSS 118003	SG	X	X			4	1	
A14-5'	3	1270	6/12/19	12:13	12:23	D-1646-15	200	STEVE.2	M100.107	SG	X	X			12	1	
A15-5'	3	1270	6/12/19	12:32	12:40	D-1646-16	200	EXTRA.1	TSS 118003	SG	X	X			8	1	
A4-5'	-	-	6/12/19	8:40	8:42	-	-	EXTRA.1	TSS 118003	SG	X	X			18	1	PRIMARY
A3-5'	-	-	6/12/19	7:38	7:47	-	-	EXTRA.1	TSS 118003	SG	X	X			4	1	PRIMARY

Representative Signature	Printed Name: Casey Slatton	Laboratory Signature	Printed Name: Annalise O'Toole	8	Total Number of Containers
Company: HMC	Date: 6-12-19 Time: 1513 PM	Company: JONES ENVIRONMENTAL, INC.	Date: 6/12/2019 Time:		
Representative Signature	Printed Name	Laboratory Signature	Printed Name	Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.	
Company	Date Time	Company	Date Time		

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: June 17, 2019

Mr. Ricardo Munoz
Hazard Management Consulting, Inc.
211 W. Avenida Cordoba, Suite 200
San Clemente, CA 92672
Tel(714)604-6726 E-Mail: RMunoz@ardentenv.com

Project: **9920-10020 Pioneer Blvd., Santa Fe Springs**
Lab I.D.: **190610-22 through -51**

Dear Mr. Munoz:

The **analytical results** for the soil samples, received by our lab on June 10, 2019, are attached. The samples were received chilled, intact, and accompanying chain of custody.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Andy Wang
Laboratory Manager

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Hazard Management Consulting, Inc.**
211 W. Avenida Cordoba, Suite 200, San Clemente, CA 92672
Tel(951)604-6726 E-Mail: RMunoz@ardentenv.com

PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/12/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

EPA 6010B FOR TTLC-ARSENIC
UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	ARSENIC RESULT	DF
A2-5	190610-25	17.9	1
A3-5	190610-27	18.6	1
A4-5	190610-29	54.7 *	1
A5-5	190610-31	15.6	1
A7-2.5	190610-34	17.0	1
A8-5	190610-37	2.53	1
A9-5	190610-39	37.0	1
A10-5	190610-41	16.2	1
A11-2.5	190610-42	21.3	1
A12-2.5	190610-44	14.4	1
A13-5	190610-47	3.34	1
A14-2.5	190610-48	17.5	1
A15-5	190610-51	3.23	1
Method Blank	---	ND	1
	PQL	0.30	

COMMENTS:
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected or below the Actual Detection Limit
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
STLC Limit for Arsenic = 5 PPM
* = STLC analysis is recommended (if marked)
*** = The concentration exceeds the TTLC Limit @ 500 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 6/12/2019 — **Unit : mg/Kg(ppm)**

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	190610-37	50.0	102	PASS	2.53	50.0	49.6	94%	49.5	94%	0%
Lead(Pb)	190610-37	50.0	106	PASS	1.91	50.0	47.5	91%	47.5	91%	0%
Nickel(Ni)	190610-37	50.0	106	PASS	7.87	50.0	47.5	79%	47.5	79%	0%

ANALYSIS DATE. : 6/11/2019

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	190610-19	0.125	93	PASS	0	0.125	0.107	85%	0.111	88%	4%

MS/MSD Status:

Analysis	%MS	%MSD	0.021	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Nickel(Ni)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
Accepted Range	**75 ~ 125**	**75 ~ 125**	**85 ~ 115**	**0 ~ 20**

ANALYST: _____

FINAL REVIEWER: _____

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Hazard Management Consulting, Inc.**
211 W. Avenida Cordoba, Suite 200, San Clemente, CA 92672
Tel(951)604-6726 E-Mail: RMunoz@ardentenv.com

PROJECT: **9920-10020 Pionner Blvd., Santa Fe Springs**

SAMPLING DATE:06/10/19
MATRIX:SOIL
REPORTED TO:MR. RICARDO MUNOZ

DATE RECEIVED:06/10/19
DATE EXTRACTED:06/11/19
DATE ANALYZED:06/11/19
DATE REPORTED:06/17/19

TOTAL PETROLEUM HYDROCARBONS(TPH) - CARBON CHAIN ANALYSIS
METHOD: EPA 8015B
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	C6-C12	C13-C22	C23-C32	DF
A1-5	190610-23	ND	ND	1610	10
A2-5	190610-25	10.8 *	62.5 *	237	1
A3-5	190610-27	ND	156 *	2240	5
A4-5	190610-29	ND	573 *	4180	10
A5-5	190610-31	ND	196 *	2270	10
A6-5	190610-33	ND	ND	2160	10
A7-2.5	190610-34	ND	ND	ND	1
A8-5	190610-37	ND	ND	ND	1
A9-5	190610-39	ND	236 *	2020	5
A10-5	190610-41	ND	275 *	2960	10
A11-2.5	190610-42	116 *	2190 *	7800	10
A12-2.5	190610-44	ND	ND	808	10
A13-5	190610-47	ND	ND	ND	1
A14-2.5	190610-48	ND	103 *	2570	10
A15-5	190610-51	ND	ND	ND	1
METHOD BLANK		ND	ND	ND	1
	PQL	10	10	50	

COMMENTS
C6-C12 = GASOLINE RANGE
C13-C22 = DIESEL RANGE
C23-C32 = MOTOR OIL RANGE
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = DF X PQL
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
* = PEAKS IN RANGE BUT CHROMATOGRAM DOES NOT MATCH THAT OF STANDARD

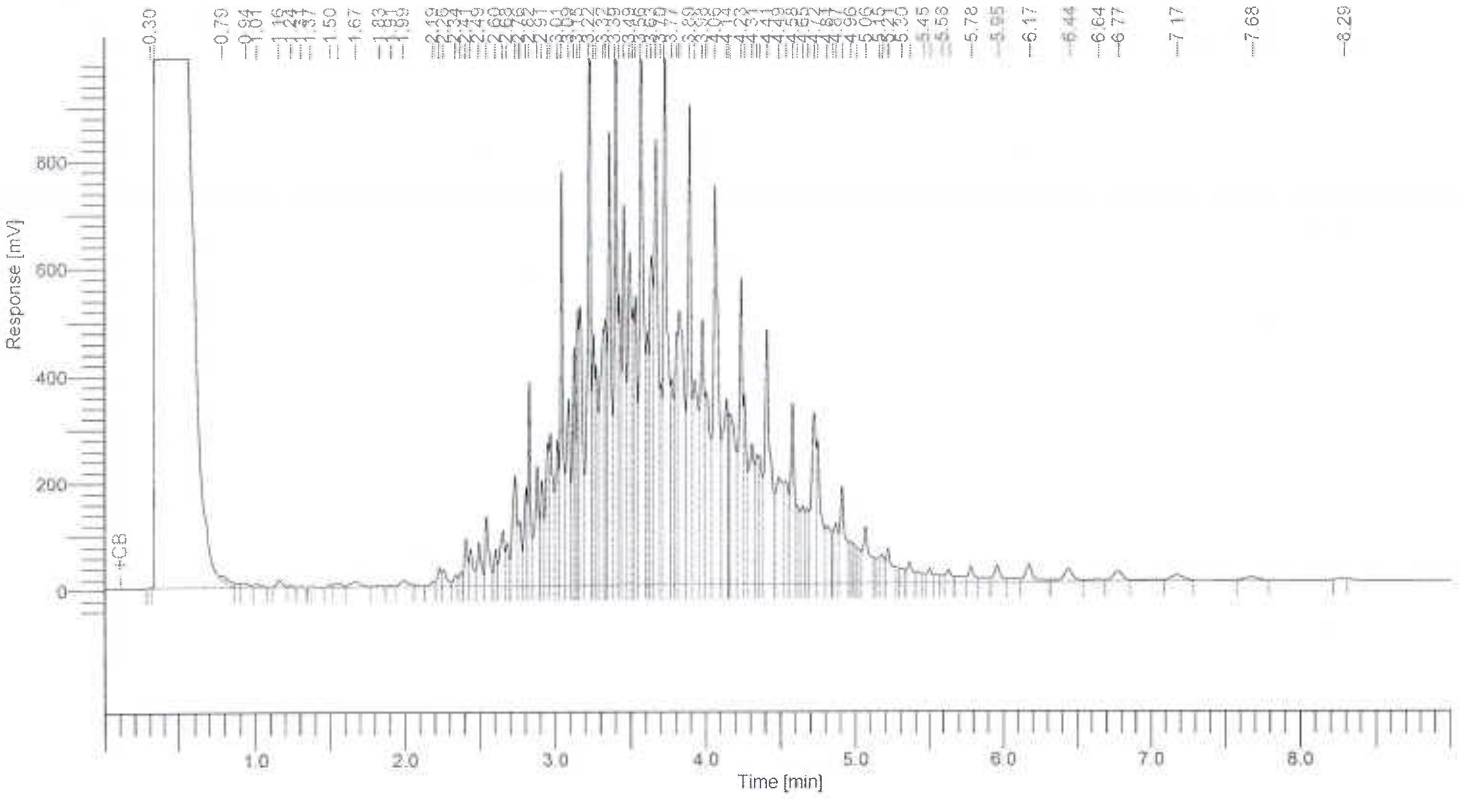
Data Reviewed and Approved by:
CAL-DHS ELAP CERTIFICATE No.: 1555

Software Version : 6.3.2.0646
Reprocess Number : desktop-j5g20m: 65714
Sample Name : DIESEL CCV 2000PPM (GC-3634)
Instrument Name : GC-I
Rack/Vial : 0/3
Sample Amount : 1.000000
Cycle : 1

Date : 6/14/2019 5:02:26 PM

Data Acquisition Time : 6/11/2019 9:52:26 AM
Channel : A
Operator : Administrator
Dilution Factor : 1.000000

Result File : E:\GC DATA\GC-I\2019\1906\190611\A004.rst
Sequence File : E:\GC DATA\GC-I\2019\1906\190611\190611.seq
Sample Notes:
FAST EPA 8015 Analysis FOR CCID



8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C6-C12	10004748	
C13-C22	29898459	
C23-C32	1209252	413.5
	41112459	413.5

Warning -- Signal level out-of-range in peak

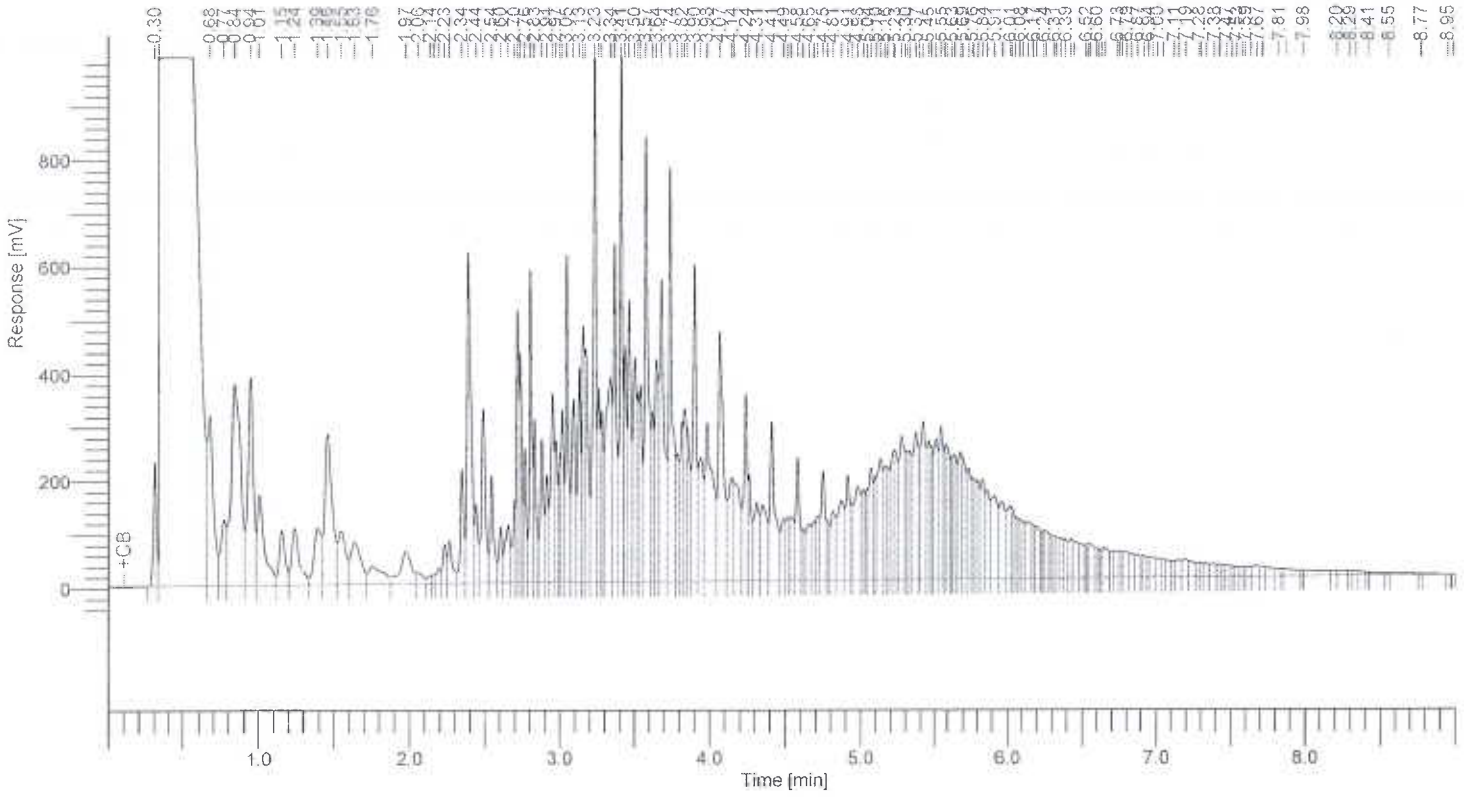
Software Version : 6.3.2.0646
Reprocess Number : desktop-j5g20m: 65715
Sample Name : CCID CCV 2000PPM (GC-3776)
Instrument Name : GC-I
Rack/Vial : 0/4
Sample Amount : 1.000000
Cycle : 1

(GAS/DIESEL/OIL STANDARD)

Date : 6/14/2019 5:02:35 PM

Data Acquisition Time : 6/11/2019 10:04:30 AM
Channel : A
Operator : Administrator
Dilution Factor : 1.000000

Result File : E:\GC DATA\GC-I\I2019\I1906\I190611\A005.rst
Sequence File : E:\GC DATA\GC-I\I2019\I1906\I190611\I190611.seq
Sample Notes:
FAST EPA 8015 Analysis FOR CCID



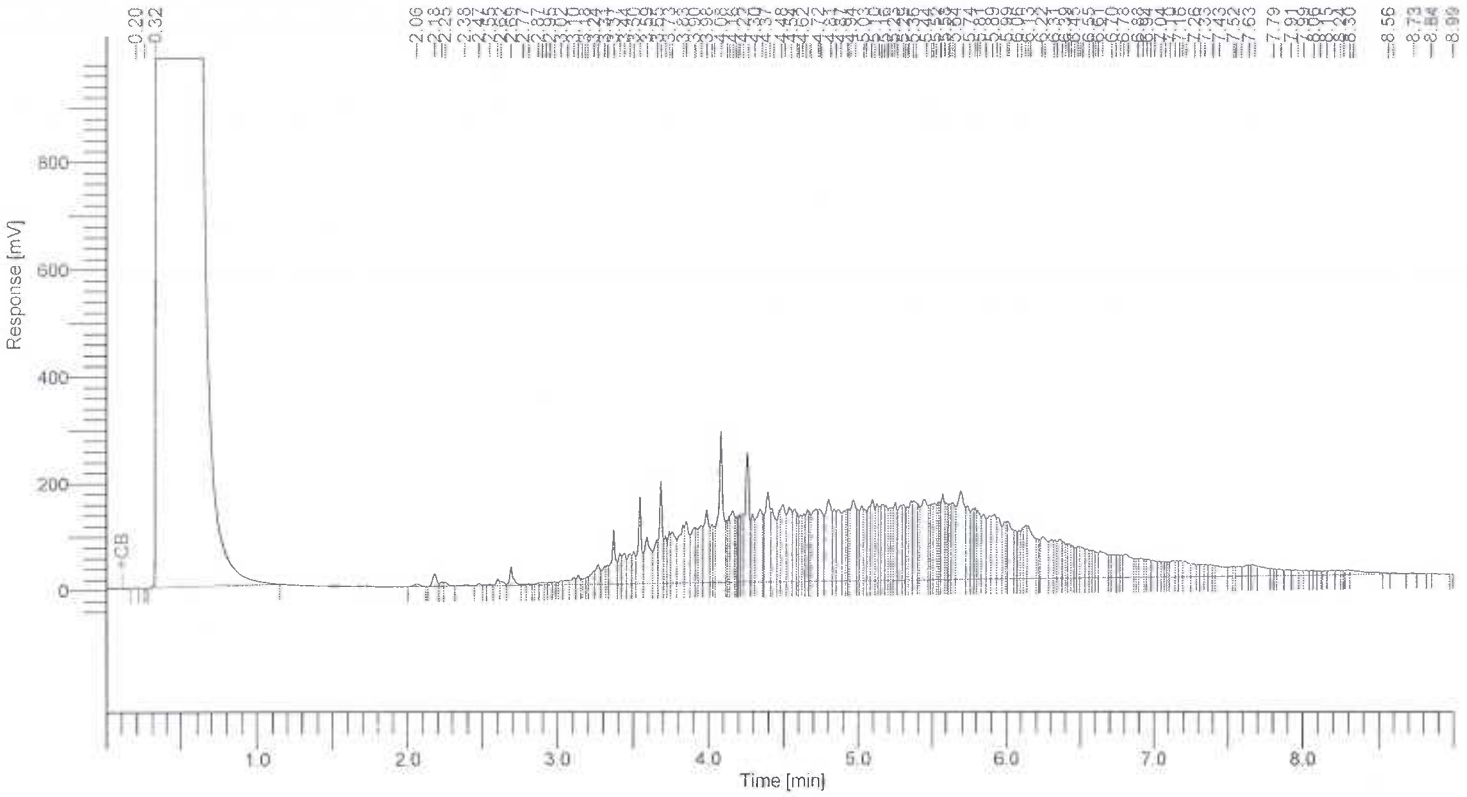
8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C6-C12	16532704	3045.6
C13-C22	19461064	1235.6
C23-C32	14969609	3503.6
	50963376	7784.8

Software Version : 6.3.2.0646
Sample Name : 190610-25 20/2 (A2-5)
Instrument Name : GC-I
Rack/Vial : 0/13
Sample Amount : 1.000000
Cycle : 1

Date : 6/14/2019 4:56:45 PM
Data Acquisition Time : 6/11/2019 11:35:34 AM
Channel : A
Operator : tcprocess
Dilution Factor : 1.000000

Result File :
Sequence File : E:\GC DATA\GC-I\I2019\I1906\I190611\I190611.seq



8015 Results

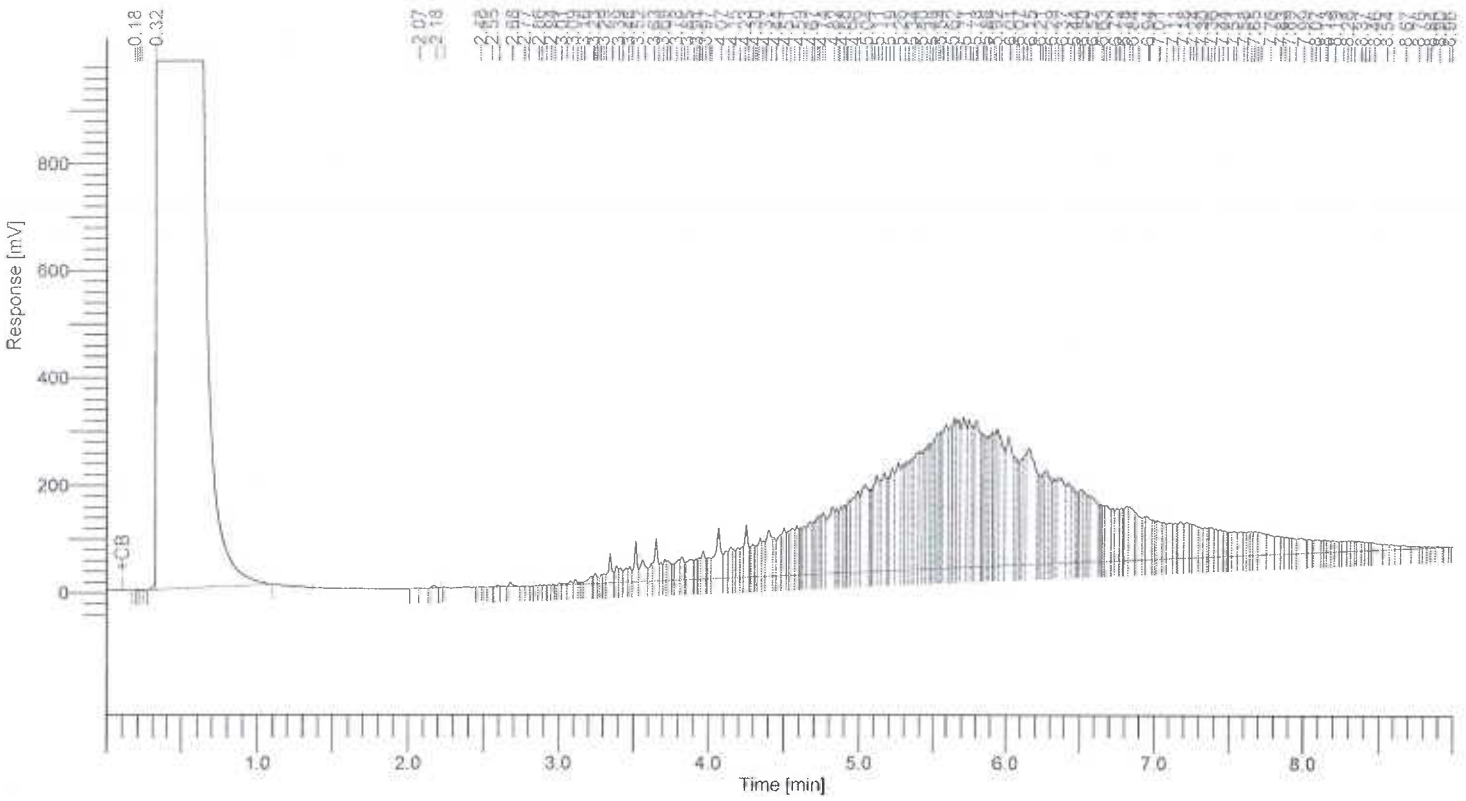
Component Name	Area [uV*sec]	Adjusted Amount
C6-C12	367871	107.5
C13-C22	10170169	624.9
C23-C32	9905232	2366.3
	20443272	3098.7

Software Version : 6.3.2.0646
Reprocess Number : desktop-ji5g20m: 65707
Sample Name : 190610-27 20/10 RE (A3-1)
Instrument Name : GC-I
Rack/Vial : 0/27
Sample Amount : 1.000000
Cycle : 1

Date : 6/14/2019 5:00:14 PM

Data Acquisition Time : 6/11/2019 4:51:51 PM
Channel : A
Operator : tcprocess
Dilution Factor : 1.000000

Result File : E:\GC DATA\GC-I\2019\1906\190611\A037.rst
Sequence File : E:\GC DATA\GC-I\2019\1906\190611\190611.seq
Sample Notes:
FAST EPA 8015 Analysis FOR CCID



8015 Results

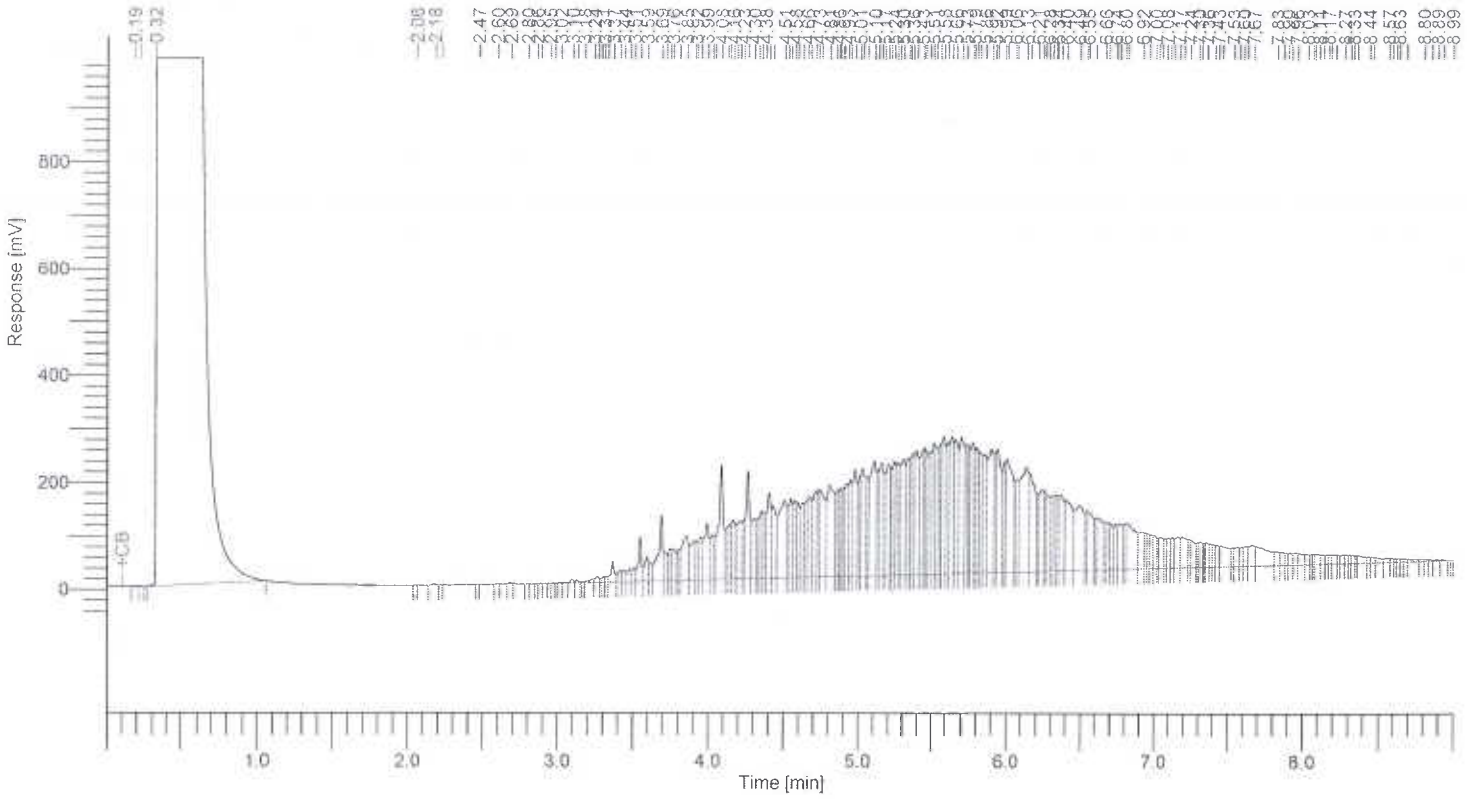
Component Name	Area [uV*sec]	Adjusted Amount
C6-C12	109851	60.6
C13-C22	5415507	312.4
C23-C32	19347428	4486.7
	24872786	4859.7

Software Version : 6.3.2.0646
Reprocess Number : desktop-ji5g20m: 65708
Sample Name : 190610-29 20/20 (A4-5)
Instrument Name : GC-I
Rack/Vial : 0/19
Sample Amount : 1.000000
Cycle : 1

Date : 6/14/2019 5:00:39 PM

Data Acquisition Time : 6/11/2019 2:06:28 PM
Channel : A
Operator : tcprocess
Dilution Factor : 1.000000

Result File : E:\GC DATA\GC-I\2019\1906\190611\A024.rst
Sequence File : E:\GC DATA\GC-I\2019\1906\190611\190611.seq
Sample Notes:
FAST EPA 8015 Analysis FOR CCID



8015 Results

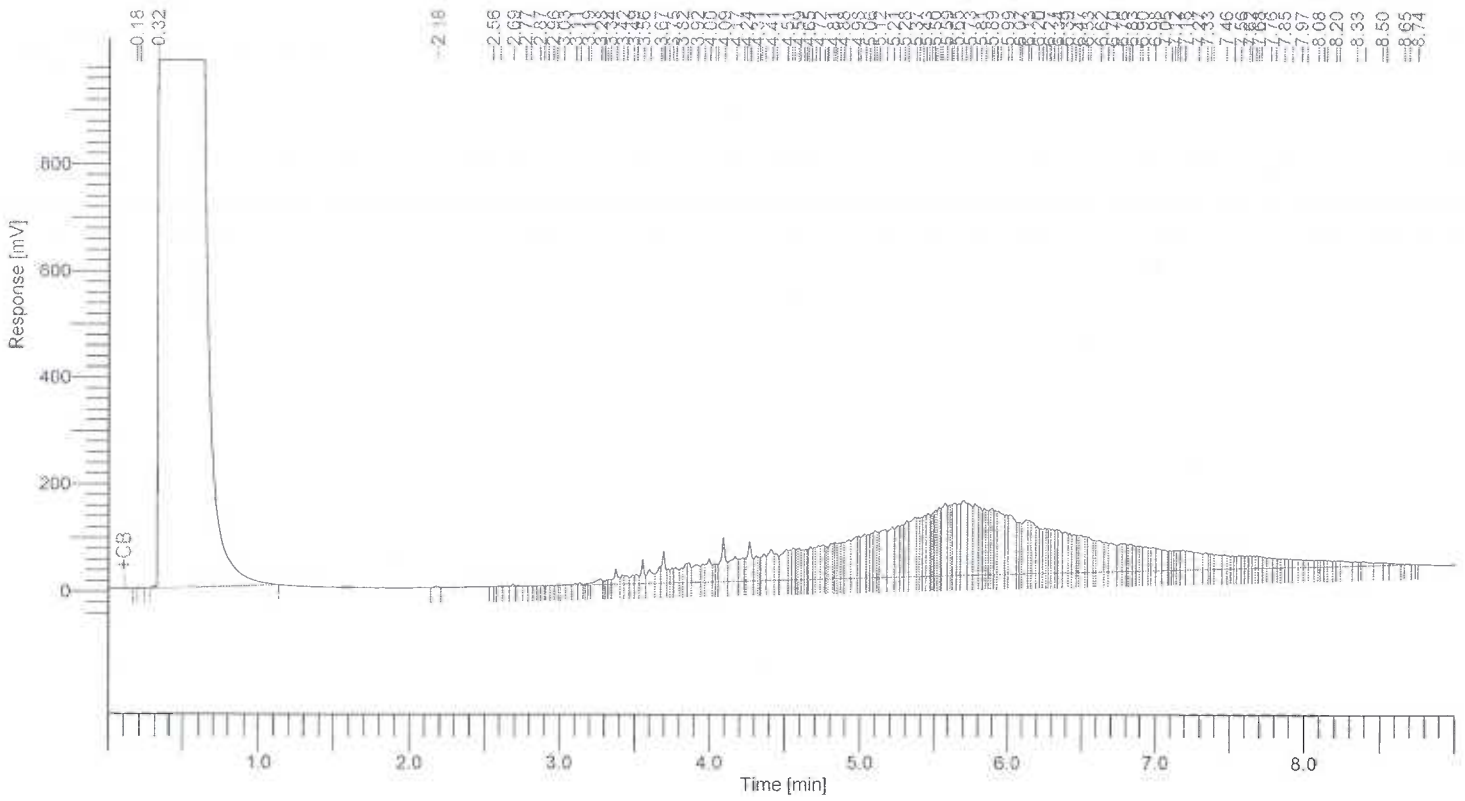
Component Name	Area [uV*sec]	Adjusted Amount
C6-C12	36989	47.4
C13-C22	8926371	543.1
C23-C32	17994946	4183.0
	26958307	4773.5

Software Version : 6.3.2.0646
Reprocess Number : desktop-ji5g20m: 65709
Sample Name : 190610-31 20/20 (AS-5)
Instrument Name : GC-I
Rack/Vial : 0/20
Sample Amount : 1.000000
Cycle : 1

Date : 6/14/2019 5:00:59 PM

Data Acquisition Time : 6/11/2019 2:18:41 PM
Channel : A
Operator : tcprocess
Dilution Factor : 1.000000

Result File : E:\GC DATA\GC-I\I2019\I1906\I190611\A025.rst
Sequence File : E:\GC DATA\GC-I\I2019\I1906\I190611\I190611.seq
Sample Notes:
FAST EPA 8015 Analysis FOR CCID



8015 Results

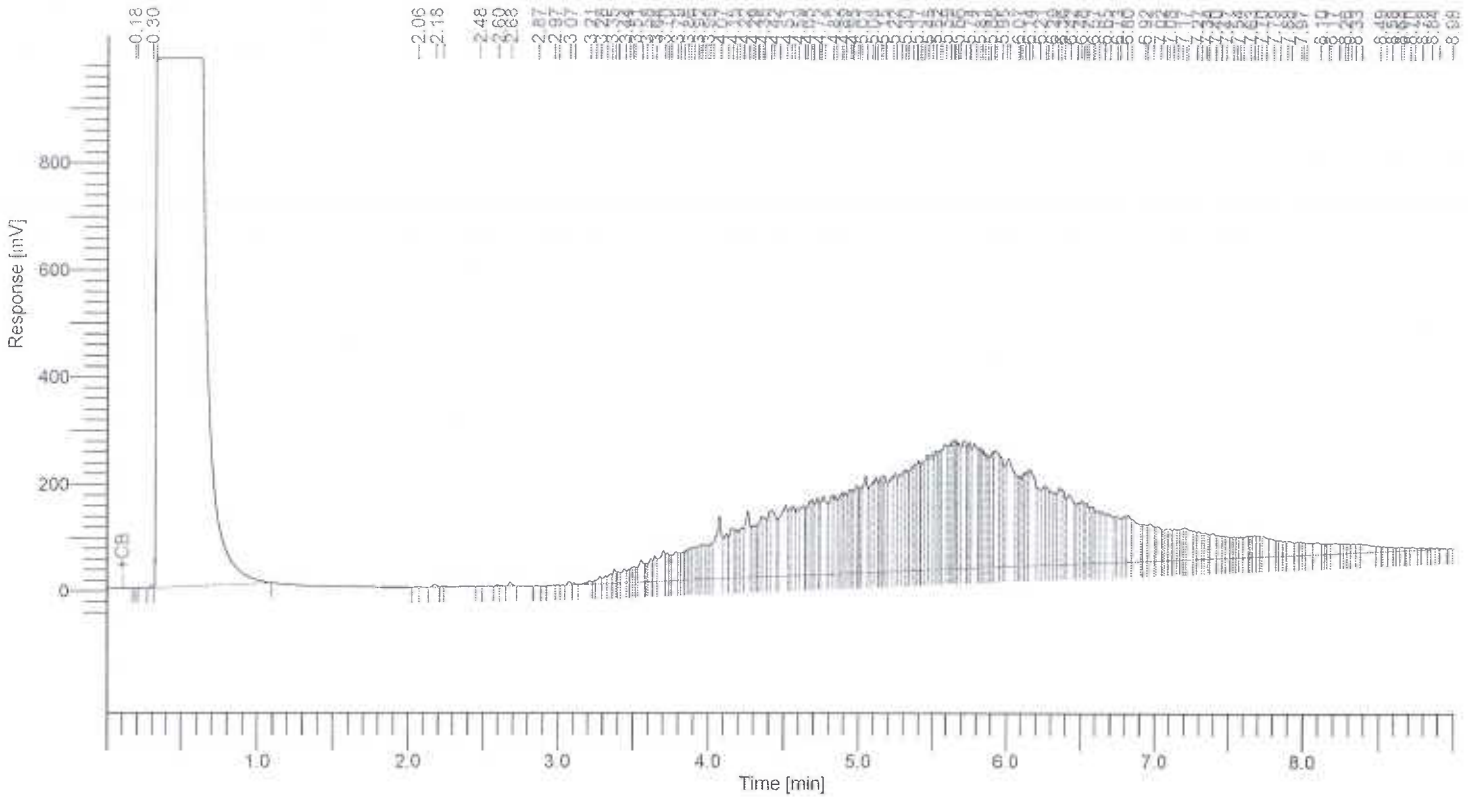
Component Name	Area [uV*sec]	Adjusted Amount
C6-C12	38412	47.6
C13-C22	3637525	195.5
C23-C32	9488674	2272.8
	13164612	2515.9

Software Version : 6.3.2.0646
Reprocess Number : desktop-ji5g20m: 65710
Sample Name : 190610-39 20/10 RE (A7-5)
Instrument Name : GC-I
Rack/Vial : 0/28
Sample Amount : 1.000000
Cycle : 1

Date : 6/14/2019 5:01:12 PM

Data Acquisition Time : 6/11/2019 5:16:28 PM
Channel : A
Operator : tcprocess
Dilution Factor : 1.000000

Result File : E:\GC DATA\GC-I\I2019\I1906\I190611\A039.rst
Sequence File : E:\GC DATA\GC-I\I2019\I1906\I190611\I190611.seq
Sample Notes:
FAST EPA 8015 Analysis FOR CCID



8015 Results

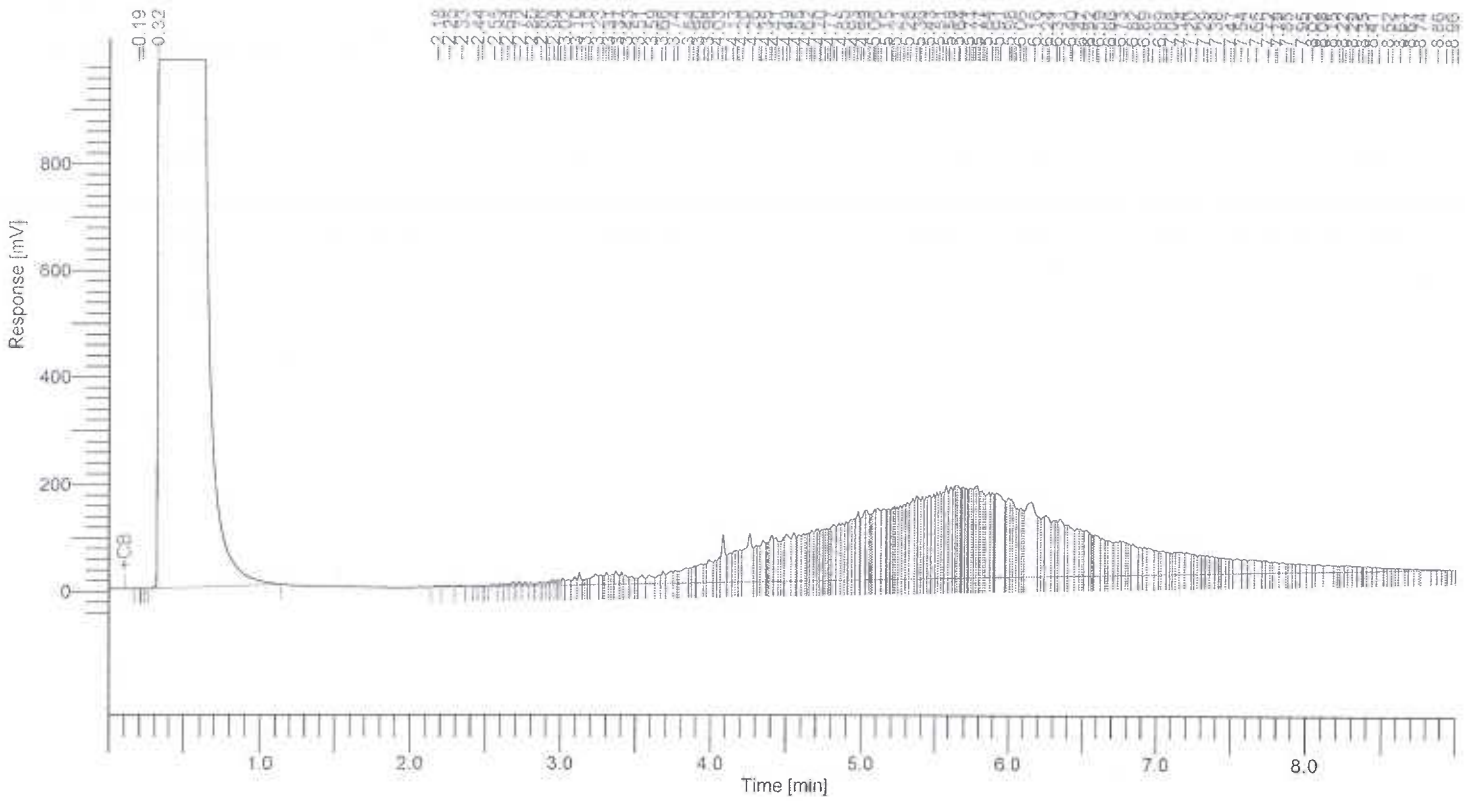
Component Name	Area [uV*sec]	Adjusted Amount
C6-C12	68064	53.0
C13-C22	7853576	472.6
C23-C32	17357503	4039.9
	25279143	4565.5

Software Version : 6.3.2.0646
Reprocess Number : desktop-ji5g20m: 6571
Sample Name : 190610-41 20/20 (A10-5)
Instrument Name : GC-I
Rack/Vial : 0/16
Sample Amount : 1.000000
Cycle : 1

Date : 6/14/2019 5:01:27 PM

Data Acquisition Time : 6/11/2019 1:29:49 PM
Channel : A
Operator : tcprocess
Dilution Factor : 1.000000

Result File : E:\GC DATA\GC-I\2019\1906\190611\A021.rst
Sequence File : E:\GC DATA\GC-I\2019\1906\190611\190611.seq
Sample Notes:
FAST EPA 8015 Analysis FOR CCID

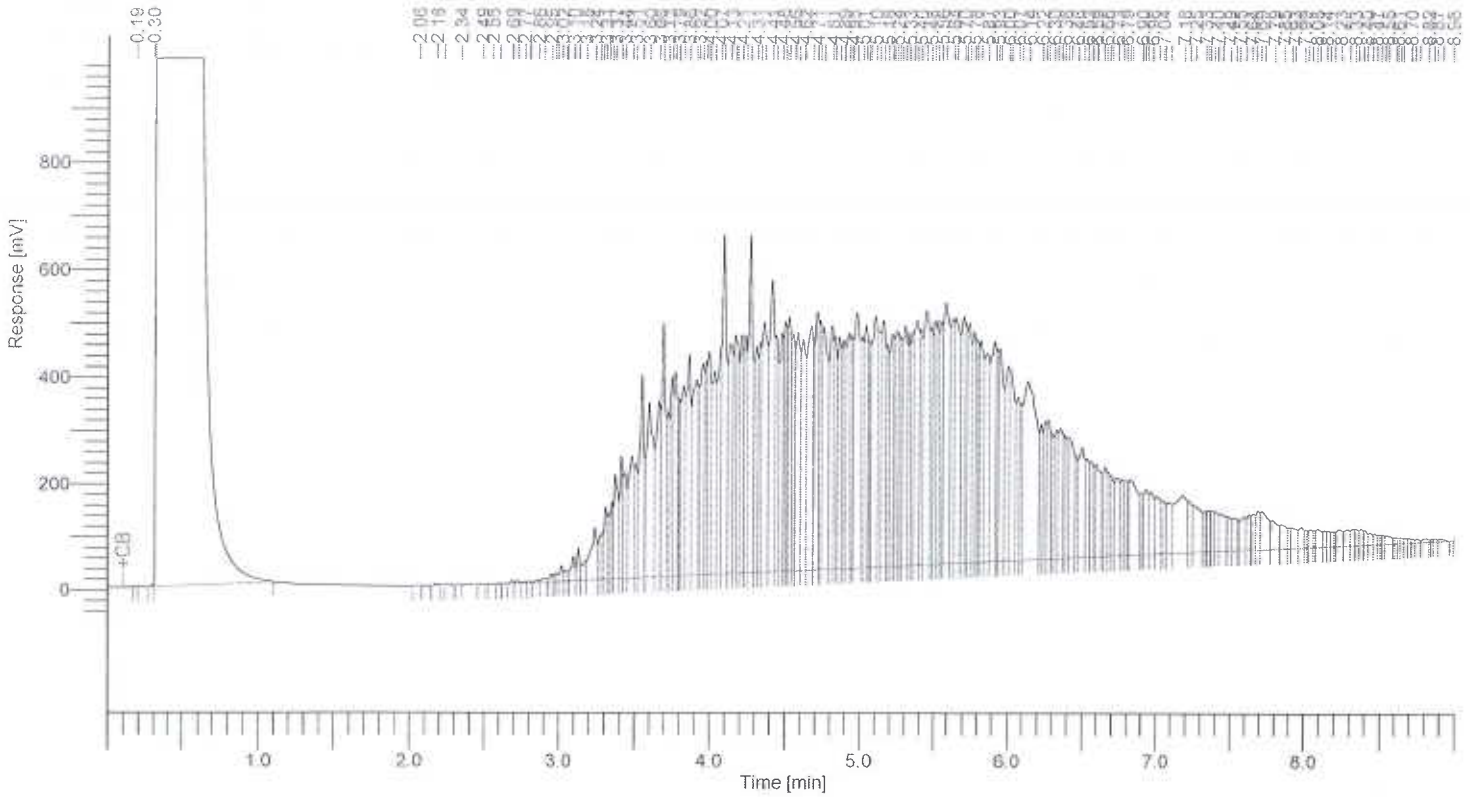


8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C6-C12	268516	89.4
C13-C22	4843050	274.8
C23-C32	12565796	2963.8
	17677362	3328.0

Software Version	: 6.3.2.0646	Date	: 6/14/2019 5:01:40 PM
Reprocess Number	: desktop-ji5g20m: 65712		
Sample Name	: 19610-42 20/20 (A11-2-S1)	Data Acquisition Time	: 6/11/2019 2:43:11 PM
Instrument Name	: GC-I	Channel	: A
Rack/Vial	: 0/22	Operator	: tcprocess
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 1		

Result File : E:\GC DATA\GC-I\I2019\I1906\I190611\A027.rst
Sequence File : E:\GC DATA\GC-I\I2019\I1906\I190611\I190611.seq
Sample Notes:
FAST EPA 8015 Analysis FOR CCID



8015 Results

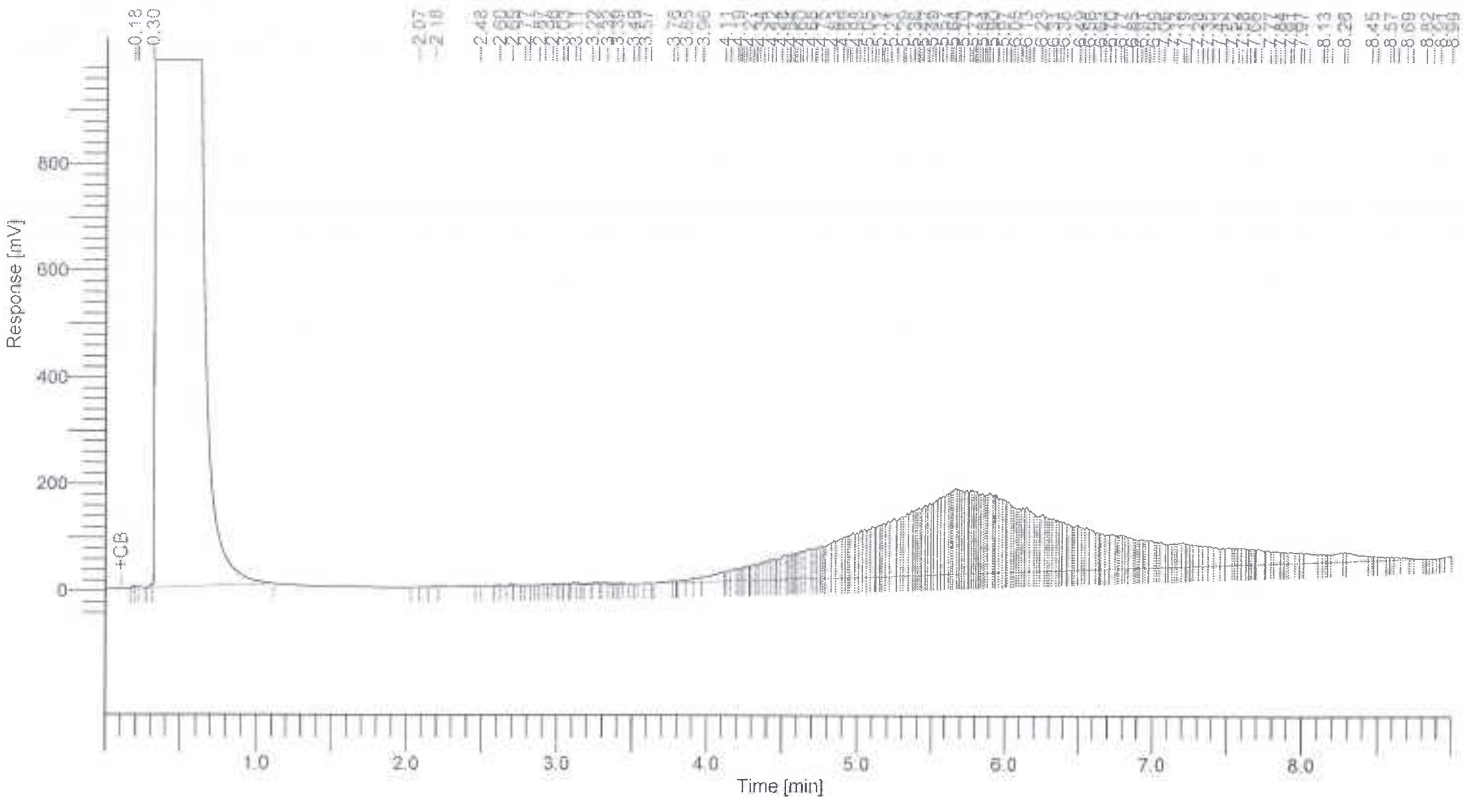
Component Name	Area [uV*sec]	Adjusted Amount
C6-C12	413492	115.8
C13-C22	33932381	2186.7
C23-C32	34100299	7799.7
	68446172	10102.2

Software Version : 6.3.2.0646
Reprocess Number : desktop-ji5g20m: 65713
Sample Name : 190610-48 20/20 (A14-2.5)
Instrument Name : GC-I
Rack/Vial : 0/23
Sample Amount : 1.000000
Cycle : 1

Date : 6/14/2019 5:02:07 PM

Data Acquisition Time : 6/11/2019 3:10:22 PM
Channel : A
Operator : tcprocess
Dilution Factor : 1.000000

Result File : E:\GC DATA\GC-I\2019\1906\190611\A029.rst
Sequence File : E:\GC DATA\GC-I\2019\1906\190611\190611.seq
Sample Notes:
FAST EPA 8015 Analysis FOR CCID



8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C6-C12	54752	50.6
C13-C22	2236279	103.4
C23-C32	10790009	2565.0
	13081040	2719.0

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

8015B QA/QC Report

Date Analyzed: 6/11/2019 **Units:** mg/Kg (ppm)

Matrix: **Soil/Solid/Sludge/Liquid**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **190610-52 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C10~C28 Range	0	200	165	**82%**	161	**81%**	**2%**	**75-125**	**0-20%**

LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C10~C28 Range	200	220	**110%**	**75-125**

Analyzed and Reviewed By: _____

Final Reviewer: _____

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: Hazard Management Consulting, Inc.
211 W. Avenida Cordoba, Suite 200, San Clemente, CA 92672
Tel(951)604-6726 E-Mail: RMunoz@ardentenv.com

PROJECT: 9920-10020 Pioneer Blvd., Santa Fe Springs
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: A1-5 LAB I.D.: 190610-23

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: _____

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LABORATORY REPORT

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PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A1-5** LAB I.D.: 190610-23

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
CAL-DHS CERTIFICATE # 1555

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SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A2-5** LAB I.D.: 190610-25

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	0.047	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A2-5** LAB I.D.: 190610-25

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
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SAMPLING DATE: 06/10/19 DATE RECEIVED: 06/10/19
MATRIX: SOIL DATE ANALYZED: 06/11/19
REPORTED TO: MR. RICARDO MUNOZ DATE REPORTED: 06/17/19

SAMPLE I.D.: **A3-5** LAB I.D.: 190610-27

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	0.039	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A3-5** LAB I.D.: 190610-27

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
CAL-DHS CERTIFICATE # 1555

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PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A4-5** LAB I.D.: 190610-29

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A4-5** LAB I.D.: 190610-29

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
CAL-DHS CERTIFICATE # 1555

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SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A5-5** LAB I.D.: 190610-31

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	0.079	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A5-5** LAB I.D.: 190610-31

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
CAL-DHS CERTIFICATE # 1555

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LABORATORY REPORT

CUSTOMER: **Hazard Management Consulting, Inc.**
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PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A6-5** LAB I.D.: 190610-33

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A6-5** LAB I.D.: 190610-33

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
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SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A7-2.5** LAB I.D.: 190610-34

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

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MATRIX:SOIL DATE ANALYZED:06/11/19
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SAMPLE I.D.: **A7-2.5** LAB I.D.: 190610-34

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
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SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: A8-5 LAB I.D.: 190610-37

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
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SAMPLE I.D.: **A8-5** LAB I.D.: 190610-37

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
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MATRIX:SOIL DATE ANALYZED:06/11/19
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SAMPLE I.D.: **A9-5** LAB I.D.: 190610-39

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	0.025	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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SAMPLE I.D.: **A9-5** LAB I.D.: 190610-39

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
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PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A10-5** LAB I.D.: 190610-41

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	0.036	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: _____

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LABORATORY REPORT

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PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A10-5** LAB I.D.: 190610-41

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
CAL-DHS CERTIFICATE # 1555

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PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/12/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A11-2.5** LAB I.D.: 190610-42

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	0.109	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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PROJECT: 9920-10020 Pioneer Blvd., Santa Fe Springs
SAMPLING DATE: 06/10/19 DATE RECEIVED: 06/10/19
MATRIX: SOIL DATE ANALYZED: 06/12/19
REPORTED TO: MR. RICARDO MUNOZ DATE REPORTED: 06/17/19

SAMPLE I.D.: A11-2.5 LAB I.D.: 190610-42

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
CAL-DHS CERTIFICATE # 1555

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SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A12-2.5** LAB I.D.: 190610-44

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: A12-2.5 LAB I.D.: 190610-44

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
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PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE: 06/10/19 DATE RECEIVED: 06/10/19
MATRIX: SOIL DATE ANALYZED: 06/11/19
REPORTED TO: MR. RICARDO MUNOZ DATE REPORTED: 06/17/19

SAMPLE I.D.: **A13-5** LAB I.D.: 190610-47

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: _____

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PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A13-5** LAB I.D.: 190610-47

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
CAL-DHS CERTIFICATE # 1555

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LABORATORY REPORT

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PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A14-2.5** LAB I.D.: 190610-48

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	0.065	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	0.020	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

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LABORATORY REPORT

CUSTOMER: **Hazard Management Consulting, Inc.**
211 W. Avenida Cordoba, Suite 200, San Clemente, CA 92672
Tel(951)604-6726 E-Mail: RMunoz@ardentenv.com

PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE: 06/10/19 DATE RECEIVED: 06/10/19
MATRIX: SOIL DATE ANALYZED: 06/11/19
REPORTED TO: MR. RICARDO MUNOZ DATE REPORTED: 06/17/19

SAMPLE I.D.: **A14-2.5** LAB I.D.: 190610-48

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
CAL-DHS CERTIFICATE # 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Hazard Management Consulting, Inc.**
211 W. Avenida Cordoba, Suite 200, San Clemente, CA 92672
Tel(951)604-6726 E-Mail: RMunoz@ardentenv.com

PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

SAMPLE I.D.: **A15-5** LAB I.D.: 190610-51

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: _____

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Hazard Management Consulting, Inc.**
211 W. Avenida Cordoba, Suite 200, San Clemente, CA 92672
Tel(951)604-6726 E-Mail: RMunoz@ardentenv.com

PROJECT: **9920-10020 Pioneer Blvd., Santa Fe Springs**
SAMPLING DATE: 06/10/19 DATE RECEIVED: 06/10/19
MATRIX: SOIL DATE ANALYZED: 06/11/19
REPORTED TO: MR. RICARDO MUNOZ DATE REPORTED: 06/17/19

SAMPLE I.D.: **A15-5** LAB I.D.: 190610-51

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
CAL-DHS CERTIFICATE # 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: Hazard Management Consulting, Inc.
211 W. Avenida Cordoba, Suite 200, San Clemente, CA 92672
Tel(951)604-6726 E-Mail: RMunoz@ardentenv.com

PROJECT: 9920-10020 Pioneer Blvd., Santa Fe Springs
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

METHOD BLANK REPORT FOR LAB I.D.: 190610-23, -25, -27, -29, -31, -33, -34, -37, -39, -41, -42, -44, -47, -48, -51

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	0.020
BENZENE	ND	0.005
BROMOBENZENE	ND	0.005
BROMOCHLOROMETHANE	ND	0.005
BROMODICHLOROMETHANE	ND	0.005
BROMOFORM	ND	0.005
BROMOMETHANE	ND	0.005
2-BUTANONE (MEK)	ND	0.020
N-BUTYLBENZENE	ND	0.005
SEC-BUTYLBENZENE	ND	0.005
TERT-BUTYLBENZENE	ND	0.005
CARBON DISULFIDE	ND	0.010
CARBON TETRACHLORIDE	ND	0.005
CHLOROBENZENE	ND	0.005
CHLOROETHANE	ND	0.005
CHLOROFORM	ND	0.005
CHLOROMETHANE	ND	0.005
2-CHLOROTOLUENE	ND	0.005
4-CHLOROTOLUENE	ND	0.005
DIBROMOCHLOROMETHANE	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.005
1,2-DIBROMOETHANE	ND	0.005
DIBROMOMETHANE	ND	0.005
1,2-DICHLOROBENZENE	ND	0.005
1,3-DICHLOROBENZENE	ND	0.005
1,4-DICHLOROBENZENE	ND	0.005
DICHLORODIFLUOROMETHANE	ND	0.005
1,1-DICHLOROETHANE	ND	0.005
1,2-DICHLOROETHANE	ND	0.005
1,1-DICHLOROETHENE	ND	0.005
CIS-1,2-DICHLOROETHENE	ND	0.005
TRANS-1,2-DICHLOROETHENE	ND	0.005
1,2-DICHLOROPROPANE	ND	0.005

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: _____

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: Hazard Management Consulting, Inc.
211 W. Avenida Cordoba, Suite 200, San Clemente, CA 92672
Tel(951)604-6726 E-Mail: RMunoz@ardentenv.com

PROJECT: 9020-10020 Pioneer Blvd., Santa Fe Springs
SAMPLING DATE:06/10/19 DATE RECEIVED:06/10/19
MATRIX:SOIL DATE ANALYZED:06/11/19
REPORTED TO:MR. RICARDO MUNOZ DATE REPORTED:06/17/19

METHOD BLANK REPORT FOR LAB I.D.: 190610-23, -25, -27, -29, -31, -33, -34, -37, -39, -41, -42, -44, -47, -48, -51

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

PARAMETER	SAMPLE RESULT	PQL X1
1,3-DICHLOROPROPANE	ND	0.005
2,2-DICHLOROPROPANE	ND	0.005
1,1-DICHLOROPROPENE	ND	0.005
CIS-1,3-DICHLOROPROPENE	ND	0.005
TRANS-1,3-DICHLOROPROPENE	ND	0.005
ETHYLBENZENE	ND	0.005
2-HEXANONE	ND	0.020
HEXACHLOROBUTADIENE	ND	0.005
ISOPROPYLBENZENE	ND	0.005
4-ISOPROPYLTOLUENE	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	ND	0.020
METHYL tert-BUTYL ETHER (MTBE)	ND	0.005
METHYLENE CHLORIDE	ND	0.010
NAPHTHALENE	ND	0.005
N-PROPYLBENZENE	ND	0.005
STYRENE	ND	0.005
1,1,1,2-TETRACHLOROETHANE	ND	0.005
1,1,2,2-TETRACHLOROETHANE	ND	0.005
TETRACHLOROETHENE (PCE)	ND	0.005
TOLUENE	ND	0.005
1,2,3-TRICHLOROBENZENE	ND	0.005
1,2,4-TRICHLOROBENZENE	ND	0.005
1,1,1-TRICHLOROETHANE	ND	0.005
1,1,2-TRICHLOROETHANE	ND	0.005
TRICHLOROETHENE (TCE)	ND	0.005
TRICHLOROFLUOROMETHANE	ND	0.005
1,2,3-TRICHLOROPROPANE	ND	0.005
1,2,4-TRIMETHYLBENZENE	ND	0.005
1,3,5-TRIMETHYLBENZENE	ND	0.005
VINYL CHLORIDE	ND	0.005
M/P-XYLENE	ND	0.010
O-XYLENE	ND	0.005

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
DATA REVIEWED AND APPROVED BY:
CAL-DHS CERTIFICATE # 1555

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

8260B QA/QC Report

Date Analyzed: 6/11-12/2019 **Matrix:** Solid/Soil/Liquid
Machine: C **Unit:** mg/Kg (PPM)

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)
Spiked Sample Lab I.D.: 190610-23 MS/MSD

Analyte	S.R.	spk conc	MS	%RC	MSD	%RC	%RPD	ACP %RC	ACP RPD
Benzene	0	0.050	0.053	106%	0.055	110%	4%	75-125	0-20
Chlorobenzene	0	0.050	0.051	102%	0.053	106%	4%	75-125	0-20
1,1-Dichloroethene	0	0.050	0.054	108%	0.058	116%	8%	75-125	0-20
Toluene	0	0.050	0.053	106%	0.056	112%	6%	75-125	0-20
Trichloroethene (TCE)	0	0.050	0.052	104%	0.054	108%	4%	75-125	0-20

Lab Control Spike (LCS):

Analyte	spk conc	LCS	%RC	ACP %RC
Benzene	0.050	0.058	116%	75-125
Chlorobenzene	0.050	0.056	112%	75-125
Chloroform	0.050	0.059	118%	75-125
1,1-Dichlorothene	0.050	0.061	122%	75-125
Ethylbenzene	0.050	0.058	116%	75-125
o-Xylene	0.050	0.058	116%	75-125
m,p-Xylene	0.100	0.117	117%	75-125
Toluene	0.050	0.059	118%	75-125
1,1,1-Trichloroethane	0.050	0.060	120%	75-125
Trichloroethene (TCE)	0.050	0.058	116%	75-125

Surrogate Recovery	spk conc	ACP %RC	MB %RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			M-BLK	190610-23	190610-25	190610-27	190610-29	190610-31	190610-33
Dibromofluoromethane	50.0	70-130	103%	130%	106%	104%	104%	104%	103%
Toluene-d8	50.0	70-130	99%	100%	99%	101%	99%	100%	98%
4-Bromofluorobenzene	50.0	70-130	101%	103%	101%	103%	99%	101%	100%

Surrogate Recovery	spk conc	ACP %RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			190610-34	190610-37	190610-39	190610-41	190610-42	190610-44	190610-47
Dibromofluoromethane	50.0	70-130	104%	104%	104%	106%	106%	105%	107%
Toluene-d8	50.0	70-130	100%	101%	99%	99%	99%	99%	98%
4-Bromofluorobenzene	50.0	70-130	102%	102%	101%	99%	98%	102%	101%

Surrogate Recovery	spk conc	ACP %RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			190610-48	190610-51	190611-8	190611-9	190611-14		
Dibromofluoromethane	50.0	70-130	107%	106%	94%	75%	99%		
Toluene-d8	50.0	70-130	99%	101%	90%	92%	98%		
4-Bromofluorobenzene	50.0	70-130	99%	100%	106%	98%	98%		

** = Surrogate fail due to matrix interference; LCS, MS, MSD are in control therefore the analysis is in control.*
S.R. = Sample Results *%RC = Percent Recovery*
spk conc = Spike Concentration *ACP %RC = Accepted Percent Recovery*
MS = Matrix Spike *MSD = Matrix Spike Duplicate*

Analyzed/Reviewed By: _____

Final Reviewer: _____

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE #1555

Turnaround Time
O Same Day
O 24 Hours
O 48 Hours
O 72 Hours
O ~~1 Week~~ (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	TPH 6-2-32 8015	VOC 8260B	Asenic 6010								Misc./PO#
								Analysis Required										COMMENTS
A1-2.5	19061O-22	6-10-19	7:30	Soil	1			X	X	RM								Add unt. I
A1-5	-23		7:35					X	X									we determine
A2-2.5	-24		7:48															which to
A2-5	-25		12:50					X	X	X								analyze
A3-2.5	26		8:18															
A3-5	27		8:20					X	X	X								
A4-2.5	28		7:45															
A4-5	29		7:50					X	X	X								
A5-2.5	30		12:28															
A5-5	31		12:30					X	X	X								
A6-2.5	32		7:15															
A6-5	33		7:20					X	X									
A7-2.5	34		8:05					X	X	X								
A7-5	35		8:10					X	X	X	RM							
A8-2.5	36		8:30															

Company Name: Hazard Management Consulting
Address: 211 West Avenida Cordoba
City/State/Zip: San Clemente, CA

Project Contact: Ricardo Muñoz
Tel: 951-736-5334
Fax/Email: rmunoz@adelantenv.com

Sampler's Signature: Ricardo Muñoz
Project Name/ID: 9970-10120 Pioneer Blvd, Santa Fe Springs

Relinquished by: Ricardo Muñoz	Received by:	6/10/19	1346
Relinquished by:	Received by:	Date & Time:	
Relinquished by:	Received by:	Date & Time:	

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 6-10-19

WHITE WITH SAMPLE • YELLOW TO CLIENT

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE #1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
~~0 1 Week~~ (Standard)
~~Other:~~

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	TPH 8015	VOC 8260B	Arsenic 6010								Misc./PO# / COMMENTS
								Analysis Required										
A9-5	1P0610-37	6-10-19	8:35	Soil	1			X	X	X								hold until we determine which to analyze
A9-2.5	-38		9:05															
A9-5	-39		9:10					X	X	X								
A10-2.5	-40		9:20															
A10-5	-41		9:15					X	X	X								
A11-2.5	-42		9:48					X	X	X								
A11-5	-43		9:50															
A12-2.5	-44		10:10					X	X	X								
A12-5	-45		10:15															
A13-2.5	-46		10:20															
A13-5	-47		10:30					X	X	X								
A14-2.5	-48		10:55					X	X	X								
A14-5	-49		11:00															
A15-2.5	-50		9:40															
A15-5	-51		9:45					X	X	X								

Company Name: Hazard Management Consulting
Address: 211 West Avenida Cordoba
City/State/Zip: San Clemente, CA

Project Contact: Ricardo Muñoz
Tel: 951-736-5334
Fax/Email: rmunoz@wardwinters.com

Sampler's Signature: [signature]
Project Name/ID: 9920-10020 Pioneer Blvd, Santa Fe Springs

Relinquished by: [signature]	Received by: [signature]	6/10/19	1746
Relinquished by:	Received by:	Date & Time:	
Relinquished by:	Received by:	Date & Time:	

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

Date: 6-10-19

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPLE • YELLOW TO CLIENT

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE #1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
~~0~~ 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
A1-2.5	1906D-22	6-10-19	7:30	Soil	1	pt			hold until we determine which to analyze
A1-5	-23		7:35						
A2-2.5	-24		12:48			4oz jar			
A2-5	-25		12:50			4oz jar			
A3-2.5	-26		8:18			4oz jar			
A3-5	-27		8:20			4oz jar			
A4-2.5	-28		7:45			1x pt			
A4-5	-29		7:50						
A5-2.5	-30		12:28			4oz jar			
A5-5	-31		12:30			4oz jar			
A6-2.5	-32		7:15			1x pt			
A6-5	-33		7:20						
A7-2.5	-34		8:05						
A7-5	-35		8:10						
A8-2.5	-36	↓	8:30	↓	↓	↓			

Misc./PO#

Company Name: Hazard Management Consulting
Address: 211 West Avenida Cordoba
City/State/Zip: San Clemente, CA

Project Contact: Ricardo Muñoz
Tel: 951-736-5334
Fax/Email: rmunoz@wardenenv.com

Sampler's Signature: R Muñoz
Project Name/ID: 9920-10020 Pioneer Blvd, Santa Fe Springs

Relinquished by: R Muñoz	Received by:	Date & Time: 6/10/19 1346	Instructions for Sample Storage After Analysis:
Relinquished by:	Received by:	Date & Time:	O Dispose of O Return to Client O Store (30 Days)
Relinquished by:	Received by:	Date & Time:	O Other:

CHAIN OF CUSTODY RECORD

Date: 6-10-19

WHITE WITH SAMPLE • YELLOW TO CLIENT

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE #1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
~~0 1 Week (Standard)~~
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
A8-5	190610-37	6-10-19	8:35	Soil	1	1xpt			hold until
A9-2.5	-38		9:05						we determine
A9-5	-39		9:10						which to
A10-2.5	-40		9:20						analyze
A10-5	-41		9:15						
A11-2.5	-42		9:48						
A11-5	-43		9:50						
A12-2.5	-44		10:10						
A12-5	-45		10:15						
A13-2.5	-46		10:20						
A13-5	-47		10:30						
A14-2.5	-48		10:55						
A14-5	-49		11:00						
A15-2.5	-50		9:40						
A15-5	-51		9:45						

Misc./PO#

Company Name: Hazard Management Consulting
Address: 211 west Avenida Cordoba
City/State/Zip: San Clemente, CA

Project Contact: Ricardo Muñoz
Tel: 951-736-5334
Fax/Email: rmunoz@ardentenv.com

Sampler's Signature: R. Muñoz
Project Name/ID: 9920-10020 Pioneer Blvd, Santa Fe Springs

Relinquished by: R. Muñoz	Received by:	Date & Time: 6/10/19 1746
Relinquished by:	Received by:	Date & Time:
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 6-10-19

WHITE WITH SAMPLE • YELLOW TO CLIENT

ATTACHMENT D

METHANE GAS MONITORING FIELD LOG

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log

PROJECT INFORMATION

Project: **HMC-Pioneer**	Vapor Probe ID: A1 - 5' ✓
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather: overcast, warm

EQUIPMENT USED

Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	~~7:25~~ 7:25	0	11.6	8.5	80.1	29.83
5'	7:26	0	11.6	7.6	80.7	29.83
5'	7:27	0	11.6	7.6	80.8	29.83
5'	7:28	0	11.6	7.5	80.9	29.83
5'	7:29	0	11.6	7.4	80.9	29.83
5'	7:30	0	11.6	7.4	81	29.83

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log

PROJECT INFORMATION

Project: **HMC-Pioneer**	Vapor Probe ID: **A 2 - 5'**
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather:

EQUIPMENT USED

Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	8:48	0	2.3	18.4	79.1	29.80
5'	8:49	0	2.3	18.4	79.0	29.80
5'	8:50	0	2.3	18.7	78.9	29.80
5'	8:51	0	2.2	18.7	79.0	29.80
5'	8:52	0	2.2	18.9	78.9	29.80
5'	8:53	0	2.2	18.9	78.9	29.80

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log

PROJECT INFORMATION

Project: **HMC-Pioneer**	Vapor Probe ID: **A 3 - 5'**
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather: overcast, warm

EQUIPMENT USED

Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	7:50	0	2.7	19.9	77.3	29.83
5'	7:51	0	2.5	20.1	77.4	29.83
5'	7:52	0	2.3	20.1	77.4	29.83
5'	7:53	0	2.2	20.3	77.5	29.83
5'	7:54	0	2.1	20.3	77.6	29.83
5'	7:55	0	2.0	20.3	77.6	29.83

12, 11, 8, 7

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log	
PROJECT INFORMATION	
Project: **HMC-Pioneer**	Vapor Probe ID: **A 4 - 5'**
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather:
EQUIPMENT USED	
Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	10:00	0.4	1.0	19.4	79.0	29.79
5'	10:01	0.4	1.0	19.8	78.6	29.79
5'	10:02	0.4	0.9	20.2	78.3	29.79
5'	10:03	0.3	0.8	20.4	78.2	29.79
5'	10:04	0.3	0.8	20.6	78.2	29.79
5'	10:05	0.2	0.7	20.7	78.3	29.79

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log

PROJECT INFORMATION

Project: **HMC-Pioneer**	Vapor Probe ID: **A5 - 5'**
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather: Sunny, Hot

EQUIPMENT USED

Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	11:44	0	6.0	13.4	80.4	29.78
5'	11:45	0	5.8	14.2	79.9	29.78
5'	11:46	0	5.4	15.0	79.3	29.78
5'	11:47	0	5.5	15.7	78.7	29.78
5'	11:48	0	5.1	14.5	78.2	29.78
5'	11:49	0	4.9	17.2	77.9	29.78

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log

PROJECT INFORMATION

Project: **HMC-Pioneer**	Vapor Probe ID: **A6 - 5'**
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather: overcast / warm

EQUIPMENT USED

Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	7:36	0	6.3	13.9	79.7	29.83
5'	7:37	0	6.2	13.9	79.7	29.83
5'	7:38	0.1	6.2	13.9	79.6	29.83
5'	7:39	0.1	6.2	14.0	79.6	29.83
5'	7:40	0.1	6.1	14.1	79.5	29.83
5'	7:41	0.1	6.1	14.0	79.8	29.83

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log

PROJECT INFORMATION

Project: **HMC-Pioneer**	Vapor Probe ID: **A7 - 5'**
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather: Sunny, warm

EQUIPMENT USED

Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	10:20	0	2.8	17.7	79.4	29.79
5'	10:21	0	2.8	17.6	79.4	29.79
5'	10:22	0	2.8	17.6	79.5	29.79
5'	10:23	0	2.8	17.6	79.4	29.79
5'	10:24	0	2.9	17.6	79.4	29.79
5'	10:25	0	2.9	17.6	79.4	29.79

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log

PROJECT INFORMATION

Project: **HMC-Pioneer**	Vapor Probe ID: **AY - 5'**
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather: Sunny, warm

EQUIPMENT USED

Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	10:10	0	10.8	6.2	82.8	29.79
5'	10:11	0	~~10.9~~ 11.0	6.1	82.8	29.79
5'	10:12	0	11.0	6.0	83.0	29.79
5'	10:13	0	10.9	6.0	83.0	29.79
5'	10:14	0	10.9	5.9	83.1	29.79
5'	10:15	0	11.0	5.9	83.0	29.79

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log

PROJECT INFORMATION

Project: **HMC-Pioneer**	Vapor Probe ID: **A9 - 5'**
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather: Sunny Hot

EQUIPMENT USED

Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	1:22	0	13.2	05.6	81.2	29.77
5'	1:23	0	13.1	05.6	81.2	29.77
5'	1:24	0	13.1	05.6	81.2	29.77
5'	1:25	0	13.2	05.6	81.2	29.77
5'	1:26	0	13.2	05.6	81.2	29.77
5'	1:27	0	13.3	05.5	81.3	29.77

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log

PROJECT INFORMATION

Project: **HMC-Pioneer**	Vapor Probe ID: **A10 - 5'**
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather: Sunny, Hot

EQUIPMENT USED

Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	1:36 pm	0	10.9	06.5	82.6	29.77
5'	1:37 pm	00.1	11.0	06.5	82.5	29.77
5'	1:38 pm	0	10.8	06.6	82.5	29.77
5'	1:39 pm	0	10.8	06.7	82.5	29.77
5'	1:40 pm	0	10.6	06.3	82.6	29.77
5'	1:41 pm	0	10.5	07.2	82.1	29.77

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log

PROJECT INFORMATION

Project: **HMC-Pioneer**	Vapor Probe ID: **A11 - 5'**
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather: Sonny, warm

EQUIPMENT USED

Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	10:31	0	7.5	12.2	80.2	29.79
5'	10:32	0	7.6	12.2	80.2	29.79
5'	10:33	0	7.6	12.1	80.2	29.79
5'	10:34	0	7.6	12.1	80.2	29.79
5'	10:35	0	7.6	12.1	80.2	29.79
5'	10:36	0	7.6	12.1	80.2	29.79

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log	
PROJECT INFORMATION	
Project: **HMC-Pioneer**	Vapor Probe ID: **A12 - 5'**
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather: Sunny, warm
EQUIPMENT USED	
Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	10:39	0	6.8	12.4	80.7	29.79
5'	10:40	0	6.8	12.5	80.4	29.79
5'	10:41	0	6.8	12.6	80.6	29.79
5'	10:42	0	6.6	12.8	80.6	29.79
5'	10:43	0	6.4	13.2	80.3	29.79
5'	10:44	0	6.2	13.7	80.0	29.79

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log

PROJECT INFORMATION

Project: **HMC-Pioneer**	Vapor Probe ID: A13 - 5'
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather: Sunny, Hot

EQUIPMENT USED

Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	1:05 pm	0	11.3	07.5	81.2	29.77
5'	1:06 pm	0	11.3	07.4	81.2	29.77
5'	1:07 pm	0	11.3	07.4	81.2	29.77
5'	1:08 pm	0	11.3	07.3	81.3	29.77
5'	1:09 pm	0	11.5	07.3	81.1	29.77
5'	1:10 pm	0	11.5	07.2	81.2	29.77

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log

PROJECT INFORMATION

Project: **HMC-Pioneer**	Vapor Probe ID: A14 - 5'
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather: Sunny, Hot

EQUIPMENT USED

Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	1:48 pm	0	05.0	15.5	79.5	29.77
5'	1:49 pm	0	04.9	15.8	79.4	29.77
5'	1:50 pm	0	04.6	16.1	79.2	29.77
5'	1:51 pm	0	04.4	16.4	79.1	29.77
5'	1:52 pm	0	04.2	16.9	78.8	29.77
5'	1:53 pm	0	04.0	17.2	78.7	29.77

ARDENT
ENVIRONMENTAL GROUP, INC.

Methane Gas Monitoring Field Log

PROJECT INFORMATION

Project: **HMC-Pioneer**	Vapor Probe ID: **A15 - 5'**
Project Number: **100510002**	Date: **06/12/2019**
Client: Hazard Management Counsulting Inc.	Sampler: Casey Slatten
Project Location: 9920 - 10020 Pioneer Blvd	Weather:

EQUIPMENT USED

Field Meter (model): LandTech GEM 2000	Purge Pump (model): NA
Field Meter (serial number): 12482	Purge Pump (serial number): NA
Sample Tubing: 0.25-Inch Nylaflow	Flow Controller (serial number): NA

SOIL GAS MONITORING

Depth (feet)	Date/Time	CH4 (%v)	CO2 (%v)	O2 (%v)	H2S (ppm)	BP ("Hg)
5'	12:54 pm	0	12.4	7.7	79.7	29.77
5'	12:57 pm	0	12.4	7.6	79.9	29.77
5'	12:58 pm	0	12.4	7.6	79.9	29.77
5'	12:59 pm	0	12.4	7.5	80.0	29.77
5'	1:00 pm	0	12.4	7.5	80.0	29.77
5'	1:01 pm	0	12.5	7.4	80.0	29.77

APPENDIX I: PETROLEUM ENGINEER TECHNICAL MEMORANDUM

WZI INC.

To: Hazard Management Consulting

From: WZI Inc.

Date: July 24, 2019

Subject: Abandoned oil wells on the Pioneer Boulevard Development project

Brief Overview

This project consists of reviewing seven abandoned wells located at 9920-10020 Pioneer Boulevard in Santa Fe Springs, California. Each well history has been thoroughly examined, and a wellbore diagram has been constructed for each of the seven wells. The condition of each well was compared to the California Statues and Regulations for the Division of Oil, Gas, and Geothermal Resources criteria for permanent plugging and abandonment. If there were well features that did not comply with California's abandonment protocol, those features were noted in the following section.

Review DOGGR Well Histories

The following project is in reference to the State of California document, "California Statues and Regulations for the Division of Oil, Gas, and Geothermal Resources."

S. G. & J. 1

The current condition of "S. G. & J. 1," does not meet the abandonment requirements that the State of California has defined. The Division of Oil, Gas, and Geothermal Resources requires, per section 1745.1. (a-d), cement plugs shall be placed at any event, measuring at least 100 feet below and 100 feet above each event. An event is defined as perforated intervals, isolating zones behind cemented casing, a shoe of the intermediate or second surface casing, or an interface between freshwater and saltwater zones. The perforated section from 4236'-4645' is not correctly cemented. There are casing shoes at 4218', 3888', and 2133' that were not cemented correctly. Per section 1745.3., if casing is cut and recovered, other than that pulled for placing the surface plug, a cement plug shall be placed from at least 100 feet below to at least 100 feet above the stub. This well exhibits two casing stubs that do not have cement plugs with the required features. Per section 1745.5., there is a requirement to have a surface plug measuring 100 feet long, and this requirement is not satisfied. "Any interval of the hole not plugged with cement shall be filled with mud fluid of sufficient density to exert hydrostatic pressure exceeding the greatest formation pressure encountered while drilling such interval," defined in section 1745.7. The well has intervals with no materials in the casing. There are also intervals

with non-approved materials in the casing such as wood, sand, and mud. The mud used has unknown properties and therefore can not be verified as a sufficient plugging material.

S. G. & J. Line 2

The current condition of "S. G. & J. Line 2," does not meet the abandonment requirements that the State of California has defined. The Division of Oil, Gas, and Geothermal Resources requires, per section 1745.1. (a-d), cement plugs shall be placed at any event, measuring at least 100 feet below and 100 feet above each event. It will be required to properly cement 100 feet above the perforated sections from 7711' to 7920' and 4186' to 4600'. The casing shoes at 1007', 4166', and 7712' will need to be cemented properly. Per section 1745.3., there will need to be a cement plug at the casing stubs located at 3591' and 1007'. Per section 1745.5., there is a requirement to have a surface plug measuring 100 feet long, and this requirement is not satisfied. The well has intervals with no materials in the casing. There are also intervals with non-approved materials in the casing such as wood, sand, and mud. The mud used has unknown properties and therefore cannot be verified as a sufficient plugging material. Per section 1745.7., these intervals will require correction.

Santa Gertrudes 3

The current condition of "Santa Gertrudes 3," does not meet the abandonment requirements that the State of California has defined. The Division of Oil, Gas, and Geothermal Resources requires, per section 1745.1. (a), "Plugging in uncased hole. In uncased portions of wells, cement plugs shall be placed to extend from total depth or at least 100 feet below each oil or gas zone, whichever is less, to at least 100 feet above the top of each zone, and a cement plug at least 200 feet long shall be placed across an intrazone freshwater-saltwater interface or opposite impervious strata between fresh- and saltwater zones so as to confine the fluids in the strata in which they are found and to prevent them from escaping into other strata." This well will require cementing. Per Section 1745.2.(a), sufficient cement shall be squeezed through the junk. There are no cemented intervals existing in Santa Gertrudes 3.

Santa Gertrudes 3-A

The current condition of "Santa Gertrudes 3," does not meet the abandonment requirements that the State of California has defined. The Division of Oil, Gas, and Geothermal Resources requires, per section 1745.1. (a-d), cement plugs shall be placed at any event, measuring at least 100 feet below and 100 feet above each event. The casing shoes at 4252', 2486', and 292' will need to be cemented properly. Per section 1745.3., there will need to be a cement plug at the casing stubs located at 2486' and 268' that measure 100 feet above each casing stub. Per section 1745.5., there is a requirement to have a surface plug measuring 100 feet long, and this requirement is not satisfied. The well has intervals with no materials in the casing. There are also intervals with non-

approved materials in the casing such as wood. Per section 1745.7., these intervals will require correction.

Santa Gertrudes 7

The current condition of "Santa Gertrudes 7," does not meet the abandonment requirements that the State of California has defined. The Division of Oil, Gas, and Geothermal Resources requires, per section 1745.1. (a-d), cement plugs shall be placed at any event, measuring at least 100 feet below and 100 feet above each event. It will be required to properly cement 100 feet above the perforated section from 4223' to 4650'. The casing shoes at 4245', 3961', and 2181' will need to be cemented properly. Per section 1745.3., there will need to be a cement plug at the casing stubs located at 2498' and 1703'. Per section 1745.5., there is a requirement to have a cement surface plug measuring 100 feet long, and this requirement is not satisfied. The well has intervals with no materials in the casing. There are also intervals with non-approved materials in the casing such as wood, sand, and mud. The mud used has unknown properties and therefore cannot be verified as a sufficient plugging material. Per section 1745.7., these intervals will require correction.

Santa Gertrudes 11

The current condition of "Santa Gertrudes 11," does not meet the abandonment requirements that the State of California has defined. The Division of Oil, Gas, and Geothermal Resources requires, per section 1745.1. (a), "Plugging in uncased hole. In uncased portions of wells, cement plugs shall be placed to extend from total depth or at least 100 feet below each oil or gas zone, whichever is less, to at least 100 feet above the top of each zone, and a cement plug at least 200 feet long shall be placed across an intrazone freshwater-saltwater interface or opposite impervious strata between fresh- and saltwater zones so as to confine the fluids in the strata in which they are found and to prevent them from escaping into other strata." This well has uncased hole that will need proper cementing. The well has intervals with no materials in the casing. There are also intervals with non-approved materials in the casing such as mud. The mud used has unknown properties and therefore cannot be verified as a sufficient plugging material. Per section 1745.7., these intervals will require correction. Per Section 1745.2.(a), sufficient cement shall be squeezed through the junk. There are unrecovered tools at 4017', located in the side track that have been left uncemented.

Santa Gertrudes 11-A

The current condition of "Santa Gertrudes 11-A," does not meet the abandonment requirements that the State of California has defined. The Division of Oil, Gas, and Geothermal Resources requires, per section 1745.1. (a-d), cement plugs shall be placed at any event, measuring at least 100 feet below and 100 feet above each event. The casing shoe at 1007' will need to be cemented properly. Per section 1745.5., there is a requirement to have a cement surface plug measuring 100 feet long, and this requirement is not satisfied. The well has intervals with no materials in the casing. There are also

intervals with non-approved materials in the casing such as wood and mud. The mud used has unknown properties and therefore cannot be verified as a sufficient plugging material. Per section 1745.7., these intervals will require correction.

Recommended Required Action

WZI Inc. recommends that each well be re-abandoned or access to each well be maintained per DOGGR requirements, with appropriate local agency approvals. The most likely outcome is that agencies will require re-abandonment of wells that will be located under buildings. Any re-abandonment should comply with all sections of the required abandonment regulations that the State of California has defined in the document, "California Statues and Regulations for the Division of Oil, Gas, and Geothermal Resources." For budgetary purposes, re-abandonments can range from $300,000 to $500,000 per well. These costs can be exceeded if the abandonment rig encounters significant problems downhole, which can be difficult to predict. WZI costs to design and manage abandonment programs should be budgeted at an estimated $10,000 per well.

APPENDIX J: TRIP GENERATION AND LEVEL OF SERVICE ANALYSIS

Date:	February 11, 2019
Prepared by:	Meghan Macias, TE
To:	Konnie Dobreva, JD
Site:	Pioneer Boulevard Development
Subject:	**Trip Generation and Level of Service Analysis**

This technical memorandum presents an analysis of the project-related traffic generated by the proposed Pioneer Boulevard Development located at 9920 Pioneer Boulevard in the City of Santa Fe Springs. The project proposes to replace the existing business park (Santa Fe Springs Commerce Center) with three concrete tilt-up industrial buildings totaling 163,518 square-feet. The proposed project site plan is shown in Figure 1. All tables and figures are attached to this memo.

Project Trips

The trip generation analysis for the project was prepared using trip rates from the Institute of Transportation Engineers (ITE) *Trip Generation*, 10th Edition (2017). The analysis accounts for trips generated by the existing business park and forecasts the net new trip generation of the project. The trip generation also provides an estimate of the heavy vehicle trips and applies a passenger car equivalent (PCE) factor to heavy vehicle trips. The trip generation for the project is based on the ITE rates for General Light Industrial land use. The rate is based on more than 40 surveys of General Light Industrial developments throughout the country. The ITE description of General Light Industrial notes that there is a small amount of office space associated with this type of land use, and it would by typical for a General Light Industrial building to include office space to accommodate the administrative functions of the business. Therefore, the office space included in the project description (approximately 5 percent of the project) would be supportive of the light industrial activities and is accounted for in the trip rate. Table 1 presents the PCE trip generation estimate for the project. As shown in Table 1, the proposed project is forecast to generate 910 fewer daily trips, 76 more AM peak hour and 59 more PM peak hour trips than the existing land use.

The following trip distribution assumptions were applied to the project trip generation:

- 20% traveling to the north on I-605 via Telegraph Road
- 10% traveling to the south on I-605 via Telegraph Road
- 10% traveling to the north on I-5 via Telegraph Road and Lakewood Blvd ramps
- 20% traveling to the south on I-5 via Pioneer Boulevard and Florence Avenue
- 20% traveling east on Telegraph Road (non-freeway trips)
- 10% traveling west on Telegraph Road (non-freeway trips)

The project trip distribution and assignment at each study intersection is shown in Figure 2 (attached). Figure 2 illustrates both the total trip assignment without any credit for existing uses, and the net new trip assignment, which accounts for the existing business park use.

Existing and Cumulative Traffic Volumes

Traffic counts at the two of the study area intersections (Pioneer Boulevard/Willake Road and Pioneer Boulevard/Telegraph Road) were collected on Tuesday, July 9, 2019. Traffic counts at the remaining

intersections were collected on Thursday, January 16, 2019. Future Opening Year traffic volumes were forecast by adding a 2 percent per year growth rate to the existing traffic counts and by adding trips generated by other approved projects in the area. Two projects were identified: 1) Breitburn Industrial which proposes 318,121 square feet of industrial use at the northwest corner of Santa Fe Springs road/Telegraph Road and; 2) Rexford Industrial, which proposes 201,467 square feet of industrial use at 9615 Norwalk Boulevard. The trip generation of the two cumulative projects is shown in Table 2. The existing and Opening Year traffic volume development is shown in Figure 3.

Project Impact Analysis

Levels of service (LOS) were calculated using the Intersection Capacity Utilization methodology for signalized intersections and the Highway Capacity Manual 6th Edition methodology for unsignalized and Caltrans intersections. The LOS was calculated for existing and existing plus project conditions and is shown in Table 2. It should be noted that the LOS analysis evaluated the new project trips without taking credit for the exiting land uses. For this reason, the actual with-project LOS is expected to be lower than shown in the table. Project impacts were determined using the significant impact thresholds provided in the Los Angeles County Department of Public Works Traffic Impact Analysis Report Guidelines which state that a significant impact would occur if the project related increase in the volume to capacity (v/c) ratio equals or exceeds the following thresholds:

Pre-project LOS	Pre-project V/C	Project V/C Increase
C	0.71 to 0.80	0.04 or more
D	0.81 to 0.90	0.02 or more
E/F	0.91 or more	0.01 or more

As shown in Table 2, the project would not cause a significant impact at any study intersection. The I-605 freeway ramp intersections would operate at LOS E or F in the with-project conditions using both the ICU and HCM methodologies, however the project would add less than 0.1 to the v/c, which is not a significant impact according to the Traffic Impact Analysis Report Guidelines.

Based on this analysis, the following can be concluded:

- The project would generate 910 fewer daily trips, 76 more AM peak hour and 59 more PM peak hour trips than the existing land use.
- When the full project trip generation is added to the study area intersections, without taking credit for existing land uses, the project would not cause a significant impact per the thresholds contained in the Los Angeles County Department of Public Works Traffic Impact Analysis Report Guidelines.
- This analysis is based on the project trip generation without credit for the existing land uses. Impacts would be less if only the net new trip generation were analyzed.
- Based on this analysis, the project would not create any significant traffic impacts in the existing plus project or opening year plus project conditions.

Figure 1: Project Site Plan

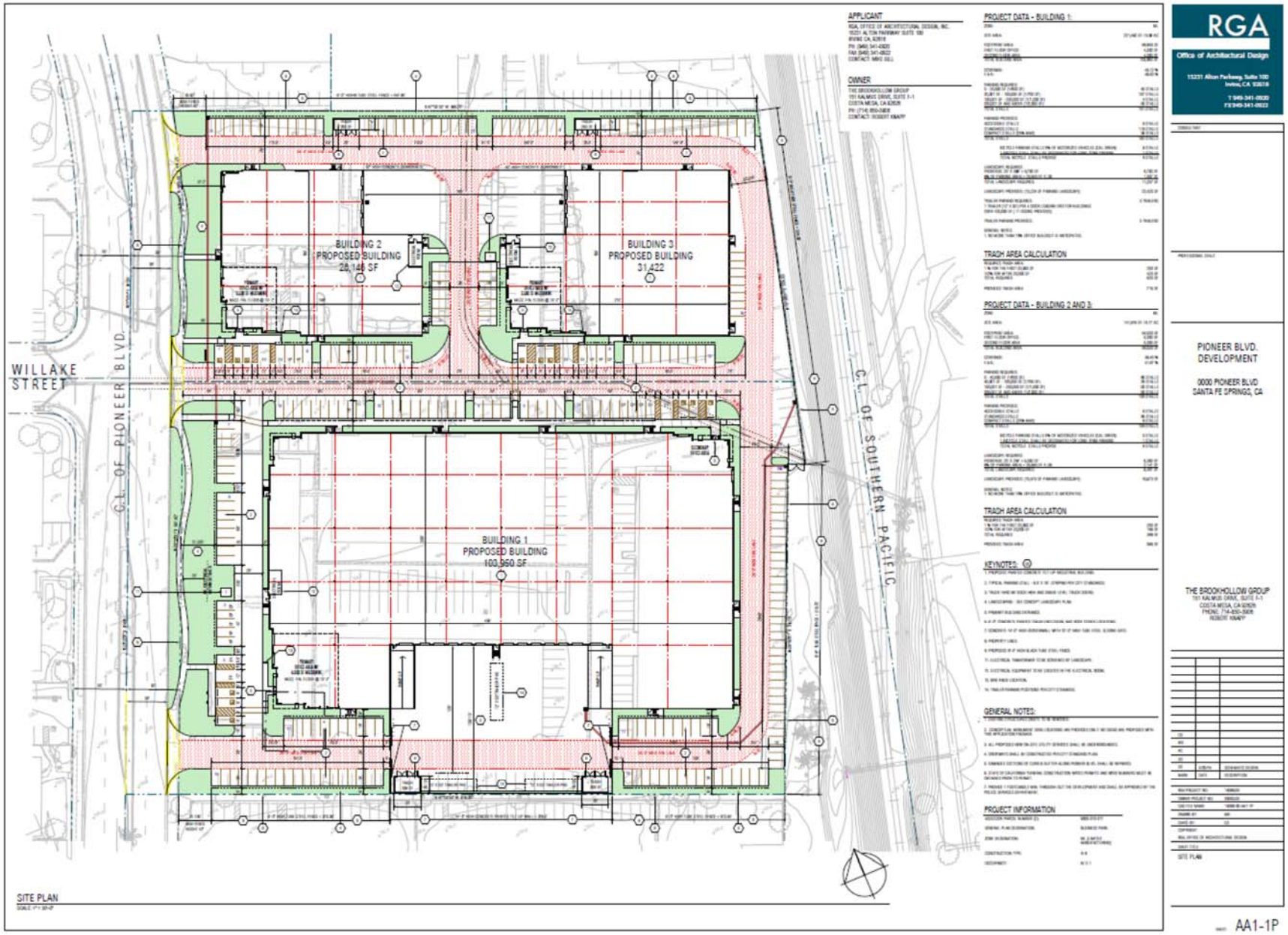


Table 1. Pioneer Blvd Development PCE Trip Generation

				AM Peak Hour			PM Peak Hour		
Land Use		**Units**	**Daily**	**In**	**Out**	**Total**	**In**	**Out**	**Total**
Trip Rates									
General Light Industrial[1]		TSF	4.96	0.62	0.08	0.70	0.08	0.55	0.63
Business Park[2]		TSF	12.44	0.24	0.16	0.40	0.19	0.23	0.42
General Office Building[3]		TSF	9.74	1.00	0.16	1.16	0.18	0.97	1.15
Existing Trip Generation									
Business Park	149.605	TSF	1861	37	23	60	29	34	63
Office	8.064	TSF	79	8	1	9	1	8	9
Total Existing Trip Generation			1940	45	25	69	30	42	72
Total Vehicle Trip Generation									
Proposed Project (Light Industrial)	163.518	TSF	811	101	14	114	13	90	103
Vehicle Mix[4]		***Percent***							
Passenger Vehicles		78.60%	637	79	11	90	11	70	81
2-Axle Trucks		8.00%	65	8	1	9	1	7	8
3-Axle Trucks		3.90%	32	4	1	4	1	3	4
4+-Axle Trucks		9.50%	77	10	1	11	1	9	10
		100%	811	101	14	114	13	90	103
PCE Trip Generation[5]		***PCE Factor***							
Passenger Vehicles		1.0	637	79	11	90	11	70	81
2-Axle Trucks		1.5	97	12	2	14	2	11	12
3-Axle Trucks		2.0	63	8	1	9	1	7	8
4+-Axle Trucks		3.0	231	29	4	33	4	26	29
Total PCE Trip Generation			1029	128	17	145	17	114	131
Net New PCE Trip Generation			-910	83	-7	76	-13	72	59

TSF = Thousand Square Feet

PCE = Passenger Car Equivalent

[1] Trip rates from the Institute of Transportation Engineers, Trip Generation, 10th Edition, 2017. Land Use Code 110 - General Light Industrial.

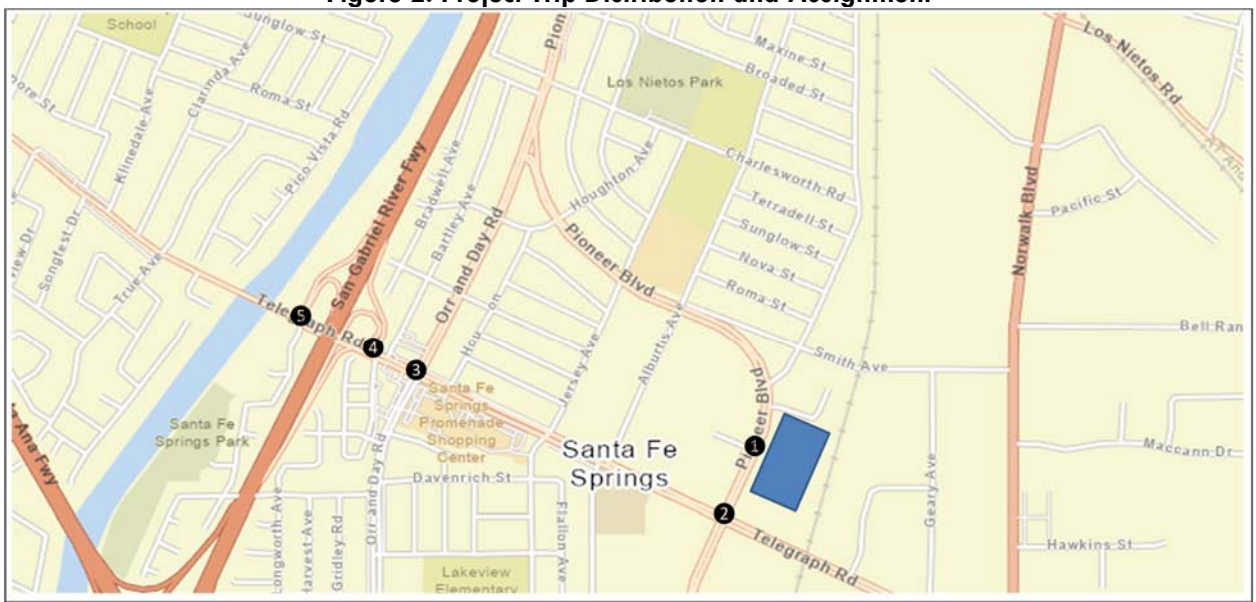
[2] Trip rates from the Institute of Transportation Engineers, *Trip Generation, 10th Edition,* 2017. Land Use Code 770 - Business Park.

[3] Trip rates from the Institute of Transportation Engineers, *Trip Generation, 10th Edition,* 2017. Land Use Code 710 - General Office Building.

[4] Vehicle Mix from the City of Fontana, *Truck Trip Generation Study* , August 2003. Classification: General Light Industrial

[5] Passenger Car Equivalent (PCE) factors from San Bernardino County CMP, Appendix B - Guidelines for CMP Traffic Impact Analysis Reports in San Bernardino County, 2016

Figure 2: Project Trip Distribution and Assignment



Project Trip Distribution

1. Pioneer/Willake	2. Pioneer/Telegraph	3. Orr & Day/Telegraph	4. I-605 NB-Bartley/Telegraph	Cedardale-I-605 SB 5. Ramps/Telegraph
0/20 ↖ ← 0/40 20/0 → ↗ 40/0	0/50 ↖ ↓ 0/30 ↙ 20/0 ↖ 50/0 ↘ 30/0 →	← 0/50 50/ →	↖ 0/20 ← 0/30 50/0 →	10/0 ↙ ↖ 0/10 ← 0/20 20/0 →

Net New Project Trip Assignment

1. Pioneer/Willake	2. Pioneer/Telegraph	3. Orr & Day/Telegraph	4. I-605 NB-Bartley/Telegraph	Cedardale-I-605 SB 5. Ramps/Telegraph
-1/14 ↖ ← -3/29 17/-3 → ↗ 33/-5	-4/36 ↖ ↓ -2/22 ↙ -1/14 ↖ 17/-3 42/-7 ↘ 25/-4 →	← -4/36 42/-7 →	↖ -1/14 ← -2/22 42/-7 →	8/-1 ↙ ↖ -1/7 ← -1/14 17/-3 →

Total Project Trip Assignment

1. Pioneer/Willake	2. Pioneer/Telegraph	3. Orr & Day/Telegraph	4. I-605 NB-Bartley/Telegraph	Cedardale-I-605 SB 5. Ramps/Telegraph
3/23 ↖ ← 7/45 26/3 → ↗ 51/7	9/57 ↖ ↓ 5/34 ↙ 3/23 ↖ 26/3 64/8 ↘ 38/5 →	← 9/57 64/8 →	↖ 3/23 ← 5/34 64/8 →	13/2 ↙ ↖ 2/11 ← 3/23 26/3 →

xx/yy = Inbound/Outbound trip distribution percentages or AM/PM Peak Hour traffic volumes
= Project Site
❶ = Study Area Intersection

Pioneer Blvd Development

Table 2. Cumulative Projects Trip Generation

				AM Peak Hour			PM Peak Hour		
Land Use		**Units**	**Daily**	**In**	**Out**	**Total**	**In**	**Out**	**Total**
Trip Rates									
General Light Industrial[1]		TSF	4.96	0.62	0.08	0.70	0.08	0.55	0.63
Total Vehicle Trip Generation									
Breitburn Industrial	318.121	TSF	1578	196	27	223	26	174	200
Rexford Industrial	201.467	TSF	999	124	17	141	17	110	127
Total			2577	320	44	364	43	285	327
Vehicle Mix[2]		***Percent***							
Passenger Vehicles		78.60%	2026	252	34	286	33	224	257
2-Axle Trucks		8.00%	206	26	3	29	3	23	26
3-Axle Trucks		3.90%	101	12	2	14	2	11	13
4+-Axle Trucks		9.50%	245	30	4	35	4	27	31
		100%	2577	320	44	364	43	285	327
PCE Trip Generation[3]		***PCE Factor***							
Passenger Vehicles		1.0	2026	252	34	286	33	224	257
2-Axle Trucks		1.5	309	38	5	44	5	34	39
3-Axle Trucks		2.0	201	25	3	28	3	22	26
4+-Axle Trucks		3.0	734	91	12	104	12	81	93
Total PCE Trip Generation			3270	406	55	462	54	361	415

TSF = Thousand Square Feet

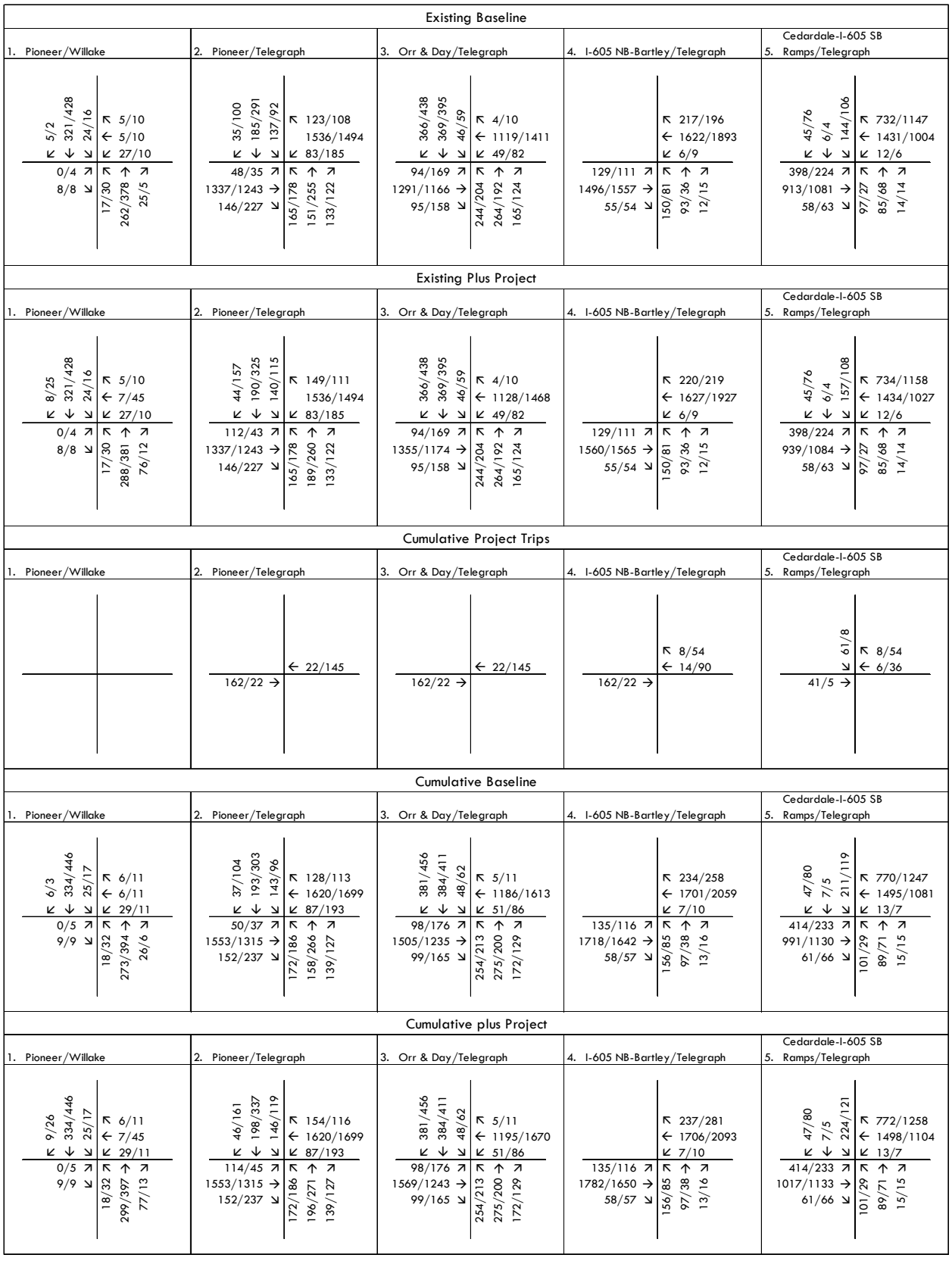
PCE = Passenger Car Equivalent

[1] Trip rates from the Institute of Transportation Engineers, Trip Generation, 10th Edition, 2017. Land Use Code 110 - General Light Industrial.

[2] Vehicle Mix from the City of Fontana, *Truck Trip Generation Study* , August 2003. Classification: General Light Industrial

[3] Passenger Car Equivalent (PCE) factors from San Bernardino County CMP, Appendix B - Guidelines for CMP Traffic Impact Analysis Reports in San Bernardino County, 2016

Figure 3: Traffic Volumes at Study Area Intersections



xx/yy = AM/PM Peak Hour traffic volumes

Table 3. Baseline and Plus Project Peak Hour Levels of Service

Intersection	Signal Control	Analysis Method	AM Peak V/C or Delay[2]	AM Peak LOS[1]	PM Peak V/C or Delay[2]	PM Peak LOS[1]	AM Peak V/C or Delay[2]	AM Peak LOS[1]	PM Peak V/C or Delay[2]	PM Peak LOS[1]	AM Peak Increase in Delay or V/C Ratio	PM Peak Increase in Delay or V/C Ratio	Impact?
			Existing				Existing plus Project						
1. Pioneer Blvd/Willake St	TWSC	ICU	15.0	C	14.8	B	16.9	C	26.5	D			
2. Pioneer Blvd/Telegraph Rd	Signal	ICU	0.689	B	0.775	C	0.731	C	0.788	C	0.042	0.013	No
3. Orr & Day Rd/Telegraph Rd	Signal	ICU	0.709	C	0.839	D	0.722	C	0.851	D	0.013	0.012	No
4. I-605 NB Ramp-	Signal	ICU	0.716	C	0.678	B	0.717	C	0.690	B	0.001	0.012	No
Bartley Ave/Telegraph Rd		HCM	23.0	C	16.5	B	23.0	C	16.8	B			
5. I-605 SB Ramps-	Signal	ICU	0.976	E	1.072	F	0.981	E	1.079	F	0.005	0.007	No
Cedardale Dr/Telegraph Rd		HCM	90.30	F	115.7	F	90.4	F	117.7	F			
			Opening Year				Opening Year plus Project						
1. Pioneer Blvd/Willake St	TWSC	ICU	15.5	C	15.4	C	17.6	C	29.1	D			
2. Pioneer Blvd/Telegraph Rd	Signal	ICU	0.753	C	0.807	D	0.761	C	0.820	D	0.008	0.013	No
3. Orr & Day Rd/Telegraph Rd	Signal	ICU	0.768	C	0.900	D	0.781	C	0.912	E	0.013	0.012	No
4. I-605 NB Ramp-	Signal	ICU	0.746	C	0.732	C	0.747	C	0.744	C	0.001	0.012	No
Bartley Ave/Telegraph Rd		HCM	24.2	C	18.3	B	24.3	C	18.8	B			
5. I-605 SB Ramps-	Signal	ICU	1.036	F	1.147	F	1.042	F	1.154	F	0.006	0.007	No
Cedardale Dr/Telegraph Rd		HCM	103.2	F	136.7	F	103.3	F	138.7	F			

ICU = Intersection Capacity Utilization

HCM = Highway Capacity Manual 6th Edition

TWSC = Two Way Stop Controlled (evaluated using the HCM Methodology)

[1] Level of Service

[2] Volume-to-capacity ratio for signalized intersection, delay for unsignalized intersections

Attachment 7 – Response to Comments

Response to Comments

Section 15088 of the CEQA Guidelines requires the Lead Agency, the City of Santa Fe Springs, to evaluate comments on environmental issues received from public agencies, organizations, and interested parties who reviewed the Initial Study/Mitigated Negative Declaration (MND) and prepare written responses. This section includes copies of all written comment letters received on the MND and the City of Santa Fe Springs's responses to the comment letters. Comment letters and specific comments are numbered for reference purposes which correspond with the City's response. A summary of each numbered comment in the commenter's letter precedes the City's response.

The following is a list of public agencies, organizations, and residents and interested parties that submitted comments on the IS/MND during the public review period. The comment letters received on the IS/MND and responses to those comments are provided on the following pages.

Letter Number	Agency/Organization/Name	Comment Date
Agencies		
A1	California Department of Transportation (Caltrans)	April 6, 2020
Organizations		
O1	Gabrieleno Band of Mission Indians - Kizh Nation	March 24, 2020

The City of Santa Fe Springs has determined that none of this material constitutes significant new information that requires recirculation of the Draft MND for further public comment under CEQA Guidelines Section 15088.5. The additional material clarifies existing information prepared in the MND and does not present any new substantive information. None of this new material indicates that the project would result in a significant new environmental impact not previously disclosed in the MND. Additionally, none of this material indicates that there would be a substantial increase in the severity of a previously identified environmental impact that would not be mitigated, or that there would be any of the other circumstances requiring recirculation described in Section 15088.5.

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LETTER A1: California Department of Transportation (Caltrans) (2 pages)

STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY Gavin Newsom, Governor

DEPARTMENT OF TRANSPORTATION
DISTRICT 7 – Office of Regional Planning
100 S. MAIN STREET, MS 16
LOS ANGELES, CA 90012
PHONE (213) 897-0475
FAX (213) 897-1337
TTY 711
www.dot.ca.gov

Making Conservation a California Way of Life.

April 6, 2020

Cuong Nguyen
City of Santa Fe Springs
Planning Department
11710 E. Telegraph Road
Santa Fe Springs, Calif. 90670

RE: 9920 Pioneer Boulevard Project – Mitigated Negative Declaration (MND)
GTS # 07-LA-2020-03217
Vic. LA-605/PM: R10.526

Dear Cuong Nguyen:

Thank you for including the California Department of Transportation (Caltrans) in the review process for the above referenced MND. The 9920 Pioneer Boulevard Project would redevelop the 9.06-acre project site with three concrete tilt-up industrial buildings totaling 163,518 gross square feet, or an increase of 5,849 square feet beyond the existing square footage. A total of 149,605 square feet will be used for business park uses, while 8,064 square feet will be used for office space. Each proposed building would include a loading dock area, mezzanine office space, and automobile parking. A total of 271 vehicle parking spots and 15 bicycle stalls will be provided. Currently, the project site is developed with seven industrial buildings that total approximately 158,000 square feet, which would be demolished as part of the proposed project. The City of Santa Fe Springs is considered the Lead Agency under the California Environmental Quality Act (CEQA). A1-1

The project is located approximately 3,600 feet away from Interstate 605 (I-605) at Telegraph Road, and approximately 1.10 miles away from the Interstate 5 (I-5) & I-605 interchange in the City of Santa Fe Springs. According to the MND, "Traffic traveling to and from the project site would mostly be traveling to and from the I-605 and I-5 freeways, and the intersections of Pioneer Boulevard/Telegraph Road and Pioneer Boulevard/Willake Street would receive most of the project traffic."

From reviewing the MND, Caltrans has the following comments:

- The City of Santa Fe Springs has chosen to analyze the transportation impacts of this project in terms of Level of Service (LOS). As a reminder, Senate Bill 743 (2013) mandates that VMT be used as the primary metric in identifying transportation impacts of all future development projects under CEQA, starting July 1, 2020. For information on determining transportation impacts in terms of VMT on the State Highway System, see the Technical Advisory on Evaluating Transportation Impacts in CEQA by the California Governor's Office of Planning and Research, dated December 2018: http://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf. A1-2
- Queuing and weaving analyses are needed at the following locations because inadequate weaving and queue storage after the addition of trips generated by this project might increase the risk of potential transportation conflicts: A1-3
  - The I-605/Telegraph Road/Cedardale Drive intersection.
  - The storage between the northbound I-605 off-ramp terminus and Bartley Avenue, as well as the storage between Bartley Avenue and Orr and Day Road.

"Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability"

The following information is included for your consideration.

The mission of Caltrans is to provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability. Furthermore, Caltrans encourages the Lead Agency to integrate transportation and land use in a way that reduces VMT and Greenhouse Gas (GHG) emissions, as well as facilitates a high level of non-motorized travel and transit use. Thus, Caltrans supports the Transportation Demand Management (TDM) strategies this project has incorporated, such as providing 15 bicycle stalls and replacing the sidewalk along the western edge of the project site. Additional TDM strategies that the City of Santa Fe Springs may want to consider integrating into this project include:

- Decrease the amount of vehicle parking provided to be no more than required, by offering additional bicycle stalls and transit passes to use the bus routes with stops near the project.
- Ensure that bicycle parking is secure, convenient, and accessible for all users.
- Confirm that access throughout the development is convenient and accommodating for all users.
- Make sure all sidewalks, curb ramps, and driveways near the project meet current ADA standards.
- Implement Class II bike lanes on Telegraph Road between the existing bicycle facilities on Santa Fe Springs Road and the San Gabriel River Mid Trail.
- Extend the bicycle facility on Pioneer Boulevard from Placita Place to south of the project site.
- Increase tree coverage as much as possible and include drought-tolerant landscaping throughout the project.

A1-4

Also, any transportation of heavy construction equipment and/or materials which requires use of oversized-transport vehicles on State highways will need a Caltrans transportation permit. If construction traffic is expected to cause delays on any State facilities, please submit a construction traffic management plan detailing these delays for Caltrans' review. Caltrans recommends that the project limit construction and operational truck traffic to off-peak periods to minimize the potential impact on State facilities.

A1-5

If you have any questions about these comments, please contact Emily Gibson, the project coordinator, at Emily.Gibson@dot.ca.gov, and refer to GTS # 07-LA-2020-03217.

Sincerely,

MIYA EDMONSON
IGR/CEQA Branch Chief
cc: Scott Morgan, State Clearinghouse

"Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability"

Response to Comment Letter A1: California Department of Transportation (Caltrans), dated April 7, 2020.

Comment A-1: This comment summarizes the Project's description as documented in DEIR Section 3.0, *Project Description.*

Response to A1-1: The comment does not raise any environmental concerns or questions; therefore, a response is not warranted.

Comment A1-2: The comment is informational and notes that SB743 mandates that VMT be used as the primary metric for identifying transportation impacts starting July 1, 2020.

Response to A1-2: The project is expected to be approved prior to July 1, which is why a VMT analysis was not prepared for the project.

Comment A1-3: The comment states that queueing and weaving analyses are needed at the intersections of I-605 SB Off Ramp-Cedardale Drive/Telegraph Road and I-605 NB Ramps – Bartley Avenue/Telegraph Road.

Response to A1-3: A weaving analysis is generally not prepared for intersections; therefore, this response will focus on the queues at each intersection. A summary table was prepared to show the expected queue lengths at turning lanes on Telegraph Road, as well as on the southbound freeway off-ramp. See Table 1: Summary of Queues in the Cumulative and Cumulative plus Project Condition. The queues were taken from the HCM 6th Edition LOS analysis worksheets and summarized for the Cumulative and Cumulative plus Project scenarios (the worst-case scenarios evaluated).

As shown in the Table 1, the available storage lane length would be exceeded at 4 locations as summarized below:

- Eastbound left-turn pocket at the Southbound off-ramp. The queue exceeds the available storage in the no-project condition during both the AM and PM peak hours. Addition of project traffic is insignificant and would not add any vehicles to the forecast queue.

- Westbound right-turn pocket at the Southbound off-ramp. In the no-project condition, the queue exceeds the distance from the Southbound off-ramp to Bartley Avenue. This over-capacity condition occurs without the project and would not be caused by project trips.

- Eastbound right-turn pocket at the Northbound ramps. The queue exceeds the available storage in the no-project condition during both the AM and PM peak hours. Addition of project traffic is insignificant and would add 2 feet to the queue.

- Westbound right-turn queue exceeds the distance between the on-ramp and Orr and Day Road. In the no-project condition, the queue exceeds the distance from the Northbound on-ramp to Orr and Day Road. This over-capacity condition occurs without the project and would not be caused by project trips.

In summary, based on the project analysis, existing queues exceed available capacity on Telegraph Road at the I-605 freeway ramps. The effect of project trips would be nominal on the existing queues.

Table 1: Summary of Queues in the Cumulative and Cumulative plus Project Condition

AM Peak Hour									PM Peak Hour								
I-605 SB Off-Ramp - Cedardale Dr/Telegraph Rd									**I-605 SB Off-Ramp - Cedardale Dr/Telegraph Rd**								
	North		**South**		**East**		**West**			**North**		**South**		**East**		**West**	
	L	**R**	**L**	**R**	**L**	**R**	**L**	**R**		**L**	**R**	**L**	**R**	**L**	**R**	**L**	**R**
Storage Length	-	-	190	190	60	50	60	190 (610 ft to Bartley Ave)	Storage Length	180	-	190	190	60	50	60	190 (610 ft to Bartley Ave)
Cumulative									**Cumulative**								
Queue Lengh	-	-	99	44	526	20	15	>610	Queue Lengh	110	-	53	77	330	22	9	>610
Cumulative plus Project									**Cumulative plus Project**								
Queue Lengh	-	-	108	44	526	20	15	>610	Queue Lengh	110	-	55	77	330	22	9	>610
Queue Exceeds Storage?	-	-	No	No	Yes	No	No	Yes	Queue Exceeds Storage?	No	-	No	No	Yes	No	No	Yes
Increase in Queue Caused by Project									**Increase in Queue Caused by Project**								
Queue Lengh	-	-	9	0	0	0	0	-	Queue Lengh	-	-	2	0	0	0	0	-
I-605 NB Ramps - Bartley Ave/Telegraph Rd.									**I-605 NB Ramps - Bartley Ave/Telegraph Rd.**								
	North		**South**		**East**		**West**			**North**		**South**		**East**		**West**	
	L	**R**	**L**	**R**	**L**	**R**	**L**	**R**		**L**	**R**	**L**	**R**	**L**	**R**	**L**	**R**
Storage Length	90	90	-	-	190	100	80	300 (to Orr and Day)	Storage Length	90	90	-	-	190	100	80	300 (to Orr and Day)
Cumulative									**Cumulative**								
Queue Lengh	75	9	-	-	84	161	9	>300	Queue Lengh	75	9	-	-	84	161	9	>300
Cumulative plus Project									**Cumulative plus Project**								
Queue Lengh	75	9	-	-	84	163	9	>300	Queue Lengh	75	9	-	-	84	163	9	>300
Queue Exceeds Storage?	No	No	-	-	No	Yes	No	Yes	Queue Exceeds Storage?	N/A	N/A	N/A	N/A	No	N/A	No	Yes
Increase in Queue Caused by Project (Feet)									**Increase in Queue Caused by Project (Feet)**								
Queue Lengh	0	0			0	2	0	-	Queue Lengh	0	0			0	2	0	-

Vehicle Queue length is estimated as 22 feet per car

Comment A1-4: The comment does not reference specific concerns related to the environmental analysis within the MND. The comment suggests Transportation Demand Management (TDM) strategies that the City of Santa Fe Springs may want to consider integrating into this project including:

- Decrease the amount of vehicle parking provided to be no more than required, by offering additional bicycle stalls and transit passes to use the bus routes with stops near the project.
- Ensure that bicycle parking is secure, convenient, and accessible for all users.
- Confirm that access throughout the development is convenient and accommodating for all users.
- Make sure all sidewalks, curb ramps, and driveways near the project meet current ADA standards.
- Implement Class II bike lanes on Telegraph Road between the existing bicycle facilities on Santa Fe Springs Road and the San Gabriel River Mid Trail.
- Extend the bicycle facility on Pioneer Boulevard from Placita Place to south of the project site.
- Increase tree coverage as much as possible and include drought-tolerant landscaping throughout the project.

Response to A1-4: The comment does not identify specific concerns or impacts related to the environmental analysis within the MND. The comments are noted and will be forwarded to decision makers for their consideration.

It should be noted that the project includes 17 bicycle parking stalls, including 3 for long term parking, allocated throughout the project for each building for convenient access.

As described in Section 4.17, *Transportation*, of the MND, the project area is currently served with transit service from the Los Angeles County Metropolitan Transportation Authority (LA Metro) and Norwalk Transit System (NTS). There is an existing bus stop with LA Metro's Local Route 62 line located at the northwest corner of the intersection of Telegraph Road and Pioneer Boulevard, which, starting on Telegraph Road, runs east-west from Boyle Heights in the City of Los Angeles to the City of Hawaiian Gardens. Another bus stop at the southwest corner of the same intersection serves NTS Line 1 and 3. Operation of the project would provide access to and would not affect the operation of the bus routes.

The proposed project does not include improvements to the existing crosswalks and would not result in impacts to pedestrian facilities; any sidewalk improvements undertaken as park of the project would be ADA compliant.

The project will not impact bicycle facilities as none exists it the immediate project vicinity and does not propose improvements to bicycle facilities. The comments will be forwarded to City decisionmakers for their consideration.

Project provides more landscaping than in required by the City's municipal code, including approximately 133 trees, and would include drought-tolerant landscaping throughout the project.

Comment A1-5: The comment states that any transportation of heavy construction equipment and/or materials which requires use of oversized-transport vehicles on State highways will need a Caltrans transportation permit and that if construction traffic is expected to cause delays on any State facilities, a construction traffic management plan should be submitted for Caltrans' review.

Response to A1-5: Appropriate coordination will be undertaken if heavy construction equipment and/or materials which require the use of oversized-transport vehicles would occur on State highways.

LETTER O1: Gabrieleno Band of Mission Indians – Kizh Nation (1 page)

GABRIELENO BAND OF MISSION INDIANS - KIZH NATION
Historically known as The San Gabriel Band of Mission Indians
recognized by the State of California as the aboriginal tribe of the Los Angeles basin

Notice of Intent to Adopt An Initial Study/ Mitigated Negative Declaration

March 24, 2020

City Santa Fe Springs

11710 E. Telegraph Road

Santa Fe Springs, CA 9070

Dear Cuong Nguyen,

We have received your Notice of Intent to adopt a Negative Declaration for the Pioneer Boulevard Development Project in the location of the City of Santa Fe Springs. Our Tribal Government is requesting the retention of a Native American Tribal Consultant to monitor all ground disturbance conducted for this project. O1-1

Sincerely,
Gabrieleno Band of Mission Indians/Kizh Nation
(1844) 390-0787 Office

Andrew Salas, Chairman | Nadine Salas, Vice-Chairman | Dr. Christina Swindall Martinez, secretary
Albert Perez, treasurer I | Martha Gonzalez Lemos, treasurer II | Richard Gradias, Chairman of the council of Elders

PO Box 393 Covina, CA 91723 www.gabrielenoindians@yahoo.com gabrielenoindians@yahoo.com

Response to Comment Letter O1: Gabrieleno Band of Mission Indians – Kizh Nation, dated March 24, 2020

Comment O1-1: The comment does not reference specific concerns related to the environmental analysis within the MND and states that Tribal Government requests the retention of a Native American Tribal Consultant to monitor all ground disturbance conducted for this project.

Response to O1-1: As detailed in Section 5.14, *Tribal Cultural Resources*, of the MND Mitigation Measure TCR-1 has already been includes pursuant the AB 52 consultation with the Kizh Nation and requires an on-call Native America monitor, as detailed in MM TCR-1 below. With mitigation, impacts would be less than significant. No further response is required.

Mitigation Measure TCR-1: Native American Monitor. Prior to the issuance of any permits for initial site clearing (such as pavement removal, grubbing, tree removals) or issuance of permits allowing ground-disturbing activities that cause excavation to depths greater than artificial fill (including as boring, grading, excavation, drilling, potholing or auguring, and trenching), the City of Santa Fe Springs shall ensure that the project applicant/developer retain qualified Native American Monitor(s) during construction-related ground disturbance activities. The monitor(s) shall be approved by the tribal representatives of the Gabrieleño Band of Mission Indians - Kizh Nation and be present on-site during construction that involve ground disturbing activities identified herein. The Native American monitor(s) shall be responsible for the following activities during the monitoring, as appropriate:

- Complete monitoring logs on a daily basis, providing descriptions of the daily activities, including construction activities, locations, soil, and any cultural materials identified.
- The on-site monitoring shall end when the project site grading and excavation activities are completed, or when the tribal representatives and monitor have indicated that the site has a low potential for tribal cultural resources.
- Upon discovery, the tribal and/or archaeological monitor/consultant/consultant shall immediately divert work a minimum of 150 feet and place an exclusion zone around the burial. The monitor/consultant(s) shall then notify the tribe, the qualified lead archaeologist, and the construction manager who shall call the coroner.
- Work will continue to be diverted while the coroner determines whether the remains are Native American. The discovery is to be kept confidential and secure to prevent any further disturbance. If the finds are determined to be Native American, the coroner will notify the NAHC, as mandated by state law, who will then appoint a Most Likely Descendent (MLD).
- If the Gabrieleño Band of Mission Indians - Kizh Nation is designated MLD, the following treatment measures shall be implemented.
- Prior to the continuation of ground-disturbing activities, the landowner shall arrange a designated site location within the footprint of the project for the respectful reburial of the human remains and/or ceremonial objects.
- In the case where discovered human remains cannot be fully documented and recovered on the same day, the remains shall be covered with muslin cloth and a steel plate that can be moved by heavy equipment placed over the excavation opening to protect the remains. If this type of steel plate is not available, a 24-hour guard should be posted outside of working hours.
- The tribe shall make every effort to recommend diverting the project and keeping the remains in situ and protected. If the project cannot be diverted, it may be determined that the burials will be removed. The tribe will work closely with the qualified archaeologist to ensure that the excavation is treated carefully, ethically and respectfully.
- If data recovery is approved by the tribe, documentation shall be taken that includes, at a minimum, detailed descriptive notes and sketches. Additional types of documentation shall be approved by the tribe for data recovery purposes.

- Cremations will either be removed in bulk or by means as necessary to ensure completely recovery of all material. If the discovery of human remains includes
- Each occurrence of human remains and associated funerary objects shall be stored using opaque cloth bags. All human remains, funerary objects, sacred objects, and objects of cultural patrimony will be removed to a secure container on site if possible. These items should be retained and reburied within six months of recovery. The site of reburial/repatriation shall be on the Project Site but at a location agreed upon between the tribe and the landowner at a site to be protected in perpetuity. There shall be no publicity regarding any cultural materials recovered.

Response to Comments

Section 15088 of the CEQA Guidelines requires the Lead Agency, the City of Santa Fe Springs, to evaluate comments on environmental issues received from public agencies, organizations, and interested parties who reviewed the Initial Study/Mitigated Negative Declaration (MND) and prepare written responses. This section includes copies of all written comment letters received on the MND and the City of Santa Fe Springs's responses to the comment letters. Comment letters and specific comments are numbered for reference purposes which correspond with the City's response. A summary of each numbered comment in the commenter's letter precedes the City's response.

The following is a list of public agencies, organizations, and residents and interested parties that submitted comments on the IS/MND during the public review period. The comment letters received on the IS/MND and responses to those comments are provided on the following pages.

Letter Number	Agency/Organization/Name	Comment Date
Agencies		
A1	California Department of Transportation (Caltrans)	April 6, 2020
Organizations		
O1	Gabrieleno Band of Mission Indians - Kizh Nation	March 24, 2020

The City of Santa Fe Springs has determined that none of this material constitutes significant new information that requires recirculation of the Draft MND for further public comment under CEQA Guidelines Section 15088.5. The additional material clarifies existing information prepared in the MND and does not present any new substantive information. None of this new material indicates that the project would result in a significant new environmental impact not previously disclosed in the MND. Additionally, none of this material indicates that there would be a substantial increase in the severity of a previously identified environmental impact that would not be mitigated, or that there would be any of the other circumstances requiring recirculation described in Section 15088.5.

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LETTER A1: California Department of Transportation (Caltrans) (2 pages)

STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY Gavin Newsom, Governor

DEPARTMENT OF TRANSPORTATION
DISTRICT 7 – Office of Regional Planning
100 S. MAIN STREET, MS 16
LOS ANGELES, CA 90012
PHONE (213) 897-0475
FAX (213) 897-1337
TTY 711
www.dot.ca.gov

Making Conservation a California Way of Life.

April 6, 2020

Cuong Nguyen
City of Santa Fe Springs
Planning Department
11710 E. Telegraph Road
Santa Fe Springs, Calif. 90670

RE: 9920 Pioneer Boulevard Project – Mitigated Negative Declaration (MND)
GTS # 07-LA-2020-03217
Vic. LA-605/PM: R10.526

Dear Cuong Nguyen:

Thank you for including the California Department of Transportation (Caltrans) in the review process for the above referenced MND. The 9920 Pioneer Boulevard Project would redevelop the 9.06-acre project site with three concrete tilt-up industrial buildings totaling 163,518 gross square feet, or an increase of 5,849 square feet beyond the existing square footage. A total of 149,605 square feet will be used for business park uses, while 8,064 square feet will be used for office space. Each proposed building would include a loading dock area, mezzanine office space, and automobile parking. A total of 271 vehicle parking spots and 15 bicycle stalls will be provided. Currently, the project site is developed with seven industrial buildings that total approximately 158,000 square feet, which would be demolished as part of the proposed project. The City of Santa Fe Springs is considered the Lead Agency under the California Environmental Quality Act (CEQA). A1-1

The project is located approximately 3,600 feet away from Interstate 605 (I-605) at Telegraph Road, and approximately 1.10 miles away from the Interstate 5 (I-5) & I-605 interchange in the City of Santa Fe Springs. According to the MND, "Traffic traveling to and from the project site would mostly be traveling to and from the I-605 and I-5 freeways, and the intersections of Pioneer Boulevard/Telegraph Road and Pioneer Boulevard/Willake Street would receive most of the project traffic."

From reviewing the MND, Caltrans has the following comments:

- The City of Santa Fe Springs has chosen to analyze the transportation impacts of this project in terms of Level of Service (LOS). As a reminder, Senate Bill 743 (2013) mandates that VMT be used as the primary metric in identifying transportation impacts of all future development projects under CEQA, starting July 1, 2020. For information on determining transportation impacts in terms of VMT on the State Highway System, see the Technical Advisory on Evaluating Transportation Impacts in CEQA by the California Governor's Office of Planning and Research, dated December 2018: http://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf. A1-2
- Queuing and weaving analyses are needed at the following locations because inadequate weaving and queue storage after the addition of trips generated by this project might increase the risk of potential transportation conflicts: A1-3
  - The I-605/Telegraph Road/Cedardale Drive intersection.
  - The storage between the northbound I-605 off-ramp terminus and Bartley Avenue, as well as the storage between Bartley Avenue and Orr and Day Road.

"Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability"

The following information is included for your consideration.

The mission of Caltrans is to provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability. Furthermore, Caltrans encourages the Lead Agency to integrate transportation and land use in a way that reduces VMT and Greenhouse Gas (GHG) emissions, as well as facilitates a high level of non-motorized travel and transit use. Thus, Caltrans supports the Transportation Demand Management (TDM) strategies this project has incorporated, such as providing 15 bicycle stalls and replacing the sidewalk along the western edge of the project site. Additional TDM strategies that the City of Santa Fe Springs may want to consider integrating into this project include:

- Decrease the amount of vehicle parking provided to be no more than required, by offering additional bicycle stalls and transit passes to use the bus routes with stops near the project.
- Ensure that bicycle parking is secure, convenient, and accessible for all users.
- Confirm that access throughout the development is convenient and accommodating for all users.
- Make sure all sidewalks, curb ramps, and driveways near the project meet current ADA standards.
- Implement Class II bike lanes on Telegraph Road between the existing bicycle facilities on Santa Fe Springs Road and the San Gabriel River Mid Trail.
- Extend the bicycle facility on Pioneer Boulevard from Placita Place to south of the project site.
- Increase tree coverage as much as possible and include drought-tolerant landscaping throughout the project.

A1-4

Also, any transportation of heavy construction equipment and/or materials which requires use of oversized-transport vehicles on State highways will need a Caltrans transportation permit. If construction traffic is expected to cause delays on any State facilities, please submit a construction traffic management plan detailing these delays for Caltrans' review. Caltrans recommends that the project limit construction and operational truck traffic to off-peak periods to minimize the potential impact on State facilities.

A1-5

If you have any questions about these comments, please contact Emily Gibson, the project coordinator, at Emily.Gibson@dot.ca.gov, and refer to GTS # 07-LA-2020-03217.

Sincerely,

MIYA EDMONSON
IGR/CEQA Branch Chief
cc: Scott Morgan, State Clearinghouse

"Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability"

Response to Comment Letter A1: California Department of Transportation (Caltrans), dated April 7, 2020.

Comment A-1: This comment summarizes the Project's description as documented in DEIR Section 3.0, *Project Description.*

Response to A1-1: The comment does not raise any environmental concerns or questions; therefore, a response is not warranted.

Comment A1-2: The comment is informational and notes that SB743 mandates that VMT be used as the primary metric for identifying transportation impacts starting July 1, 2020.

Response to A1-2: The project is expected to be approved prior to July 1, which is why a VMT analysis was not prepared for the project.

Comment A1-3: The comment states that queueing and weaving analyses are needed at the intersections of I-605 SB Off Ramp-Cedardale Drive/Telegraph Road and I-605 NB Ramps – Bartley Avenue/Telegraph Road.

Response to A1-3: A weaving analysis is generally not prepared for intersections; therefore, this response will focus on the queues at each intersection. A summary table was prepared to show the expected queue lengths at turning lanes on Telegraph Road, as well as on the southbound freeway off-ramp. See Table 1: Summary of Queues in the Cumulative and Cumulative plus Project Condition. The queues were taken from the HCM 6th Edition LOS analysis worksheets and summarized for the Cumulative and Cumulative plus Project scenarios (the worst-case scenarios evaluated).

As shown in the Table 1, the available storage lane length would be exceeded at 4 locations as summarized below:

- Eastbound left-turn pocket at the Southbound off-ramp. The queue exceeds the available storage in the no-project condition during both the AM and PM peak hours. Addition of project traffic is insignificant and would not add any vehicles to the forecast queue.

- Westbound right-turn pocket at the Southbound off-ramp. In the no-project condition, the queue exceeds the distance from the Southbound off-ramp to Bartley Avenue. This over-capacity condition occurs without the project and would not be caused by project trips.

- Eastbound right-turn pocket at the Northbound ramps. The queue exceeds the available storage in the no-project condition during both the AM and PM peak hours. Addition of project traffic is insignificant and would add 2 feet to the queue.

- Westbound right-turn queue exceeds the distance between the on-ramp and Orr and Day Road. In the no-project condition, the queue exceeds the distance from the Northbound on-ramp to Orr and Day Road. This over-capacity condition occurs without the project and would not be caused by project trips.

In summary, based on the project analysis, existing queues exceed available capacity on Telegraph Road at the I-605 freeway ramps. The effect of project trips would be nominal on the existing queues.

Table 1: Summary of Queues in the Cumulative and Cumulative plus Project Condition

AM Peak Hour									PM Peak Hour								
I-605 SB Off-Ramp - Cedardale Dr/Telegraph Rd									**I-605 SB Off-Ramp - Cedardale Dr/Telegraph Rd**								
	North		**South**		**East**		**West**			**North**		**South**		**East**		**West**	
	L	**R**	**L**	**R**	**L**	**R**	**L**	**R**		**L**	**R**	**L**	**R**	**L**	**R**	**L**	**R**
Storage Length	-	-	190	190	60	50	60	190 (610 ft to Bartley Ave)	Storage Length	180	-	190	190	60	50	60	190 (610 ft to Bartley Ave)
Cumulative									**Cumulative**								
Queue Lengh	-	-	99	44	526	20	15	>610	Queue Lengh	110	-	53	77	330	22	9	>610
Cumulative plus Project									**Cumulative plus Project**								
Queue Lengh	-	-	108	44	526	20	15	>610	Queue Lengh	110	-	55	77	330	22	9	>610
Queue Exceeds Storage?	-	-	No	No	Yes	No	No	Yes	Queue Exceeds Storage?	No	-	No	No	Yes	No	No	Yes
Increase in Queue Caused by Project									**Increase in Queue Caused by Project**								
Queue Lengh	-	-	9	0	0	0	0	-	Queue Lengh	-	-	2	0	0	0	0	-
I-605 NB Ramps - Bartley Ave/Telegraph Rd.									**I-605 NB Ramps - Bartley Ave/Telegraph Rd.**								
	North		**South**		**East**		**West**			**North**		**South**		**East**		**West**	
	L	**R**	**L**	**R**	**L**	**R**	**L**	**R**		**L**	**R**	**L**	**R**	**L**	**R**	**L**	**R**
Storage Length	90	90	-	-	190	100	80	300 (to Orr and Day)	Storage Length	90	90	-	-	190	100	80	300 (to Orr and Day)
Cumulative									**Cumulative**								
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Increase in Queue Caused by Project (Feet)									**Increase in Queue Caused by Project (Feet)**								
Queue Lengh	0	0			0	2	0	-	Queue Lengh	0	0			0	2	0	-

Vehicle Queue length is estimated as 22 feet per car

Comment A1-4: The comment does not reference specific concerns related to the environmental analysis within the MND. The comment suggests Transportation Demand Management (TDM) strategies that the City of Santa Fe Springs may want to consider integrating into this project including:

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- Increase tree coverage as much as possible and include drought-tolerant landscaping throughout the project.

Response to A1-4: The comment does not identify specific concerns or impacts related to the environmental analysis within the MND. The comments are noted and will be forwarded to decision makers for their consideration.

It should be noted that the project includes 17 bicycle parking stalls, including 3 for long term parking, allocated throughout the project for each building for convenient access.

As described in Section 4.17, *Transportation*, of the MND, the project area is currently served with transit service from the Los Angeles County Metropolitan Transportation Authority (LA Metro) and Norwalk Transit System (NTS). There is an existing bus stop with LA Metro's Local Route 62 line located at the northwest corner of the intersection of Telegraph Road and Pioneer Boulevard, which, starting on Telegraph Road, runs east-west from Boyle Heights in the City of Los Angeles to the City of Hawaiian Gardens. Another bus stop at the southwest corner of the same intersection serves NTS Line 1 and 3. Operation of the project would provide access to and would not affect the operation of the bus routes.

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LETTER O1: Gabrieleno Band of Mission Indians – Kizh Nation (1 page)

GABRIELENO BAND OF MISSION INDIANS - KIZH NATION
Historically known as The San Gabriel Band of Mission Indians
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March 24, 2020

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PO Box 393 Covina, CA 91723 www.gabrielenoindians@yahoo.com gabrielenoindians@yahoo.com

Response to Comment Letter O1: Gabrieleno Band of Mission Indians – Kizh Nation, dated March 24, 2020

Comment O1-1: The comment does not reference specific concerns related to the environmental analysis within the MND and states that Tribal Government requests the retention of a Native American Tribal Consultant to monitor all ground disturbance conducted for this project.

Response to O1-1: As detailed in Section 5.14, *Tribal Cultural Resources*, of the MND Mitigation Measure TCR-1 has already been includes pursuant the AB 52 consultation with the Kizh Nation and requires an on-call Native America monitor, as detailed in MM TCR-1 below. With mitigation, impacts would be less than significant. No further response is required.

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- Upon discovery, the tribal and/or archaeological monitor/consultant/consultant shall immediately divert work a minimum of 150 feet and place an exclusion zone around the burial. The monitor/consultant(s) shall then notify the tribe, the qualified lead archaeologist, and the construction manager who shall call the coroner.
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- If the Gabrieleño Band of Mission Indians - Kizh Nation is designated MLD, the following treatment measures shall be implemented.
- Prior to the continuation of ground-disturbing activities, the landowner shall arrange a designated site location within the footprint of the project for the respectful reburial of the human remains and/or ceremonial objects.
- In the case where discovered human remains cannot be fully documented and recovered on the same day, the remains shall be covered with muslin cloth and a steel plate that can be moved by heavy equipment placed over the excavation opening to protect the remains. If this type of steel plate is not available, a 24-hour guard should be posted outside of working hours.
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Attachment 8 - Resolution 159-2020

Attachment 9 – Full Set of Proposed Plans





PLANT SCHEDULE

TREES	BOTANICAL / COMMON NAME	CONT	WUCOLS	QTY
	Koelreuteria bipinnata / Chinese Flame Tree Multi-Trunk	36"box	Med	14
	Melaleuca quinquenervia / Cajeput Tree Standard	24"box	Med	25
	Pinus canariensis / Canary Island Pine	24"box	Low	15
	Podocarpus gracilior / Fern Pine	24"box		15
	Quercus virginiana / Southern Live Oak	24"box	Low	18
	Rhus lancea / African Sumac	24"box	Low	2
	Tristania conferta / Brisbane Box	24"box	Med	47

CONCEPT PLANT SCHEDULE

FOUNDATION PLANTING / HEDGE SCREEN - 5 GAL - MED WATER
Buxus microphylla japonica 'Green Beauty' / Green Beauty Boxwood - Space 30" o.c.
Ligustrum texanum / Texas Privet - Space 3'-6" o.c.
Nandina domestica / Heavenly Bamboo
Rhaphiolepis indica 'Jack Evans' / Indian Hawthorn

GRASSES - LOW WATER - 1 & 5 GAL
Muhlenbergia capillaris 'Autumn Blush' / Pink Muhly
Muhlenbergia lindheimeri 'Autumn Grow' TM / Lindheimer's Muhly Space 4' o.c.
Pennisetum x 'Fairy Tails' / Evergreen Fountain Grass

LARGE SCALE FOUNDATION SHRUB - 5 GAL - LOW WATER
Callistemon citrinus / Lemon Bottlebrush Shrub
Dodonaea viscosa 'Purpurea' / Purple Leafed Hopseed Bush
Elaeagnus pungens 'Fruitlandii' / Silverberry
Heteromeles arbutifolia / Toyon - Space 6' o.c.
Nerium oleander 'White' / White Oleander

SMALL SCALE FOUNDATION PLANTING - 5 GAL - LOW WATER
Arbutus unedo / Strawberry Tree Shrub - Space 5' o.c.
Leucophyllum frutescens 'Green Cloud' TM / Green Cloud Texas Ranger
Nerium oleander 'Pink' / Pink Oleander
Nerium oleander 'Red' / Red Oleander
Westringia fruticosa / Coast Rosemary - Space 4' o.c.
Xylosma congestum 'Compacta' / Compact Xylosma

VINES FOR SCREENING - 5 GAL - LOW WATER
Bougainvillea x 'San Diego Red' / Bougainvillea
Macfadyena unguis-cati / Yellow Trumpet Vine spaced @ 10' o.c.

SHRUB PALETTE - LOW WATER USE
Shrubs
Agave americana / Century Plant - Space 6' o.c.
Aloe striata / Coral Aloe
Arbutus unedo / Strawberry Tree Shrub - Space 5' o.c.
Bougainvillea x 'Rosenka' / Bougainvillea
Callistemon citrinus / Lemon Bottlebrush Shrub- Space 5' o.c.
Callistemon citrinus 'Little John' / Dwarf Bottle Brush- Space 3' o.c.
Dodonaea viscosa 'Purpurea' / Purple Leafed Hopseed Bush
Elaeagnus pungens 'Fruitlandii' / Silverberry
Leucophyllum frutescens 'Green Cloud' TM / Green Cloud Texas Ranger
Macfadyena unguis-cati / Yellow Trumpet Vine spaced @ 10' o.c.
Muhlenbergia capillaris / Pink Muhly
Muhlenbergia capillaris 'Autumn Blush' / Pink Muhly
Muhlenbergia lindheimeri 'Autumn Grow' TM / Lindheimer's Muhly Space 4' o.c.
Nerium oleander 'Petite Pink' / Petite Pink Oleander - Space 4' o.c.
Nerium oleander 'Pink' / Pink Oleander
Nerium oleander 'Red' / Red Oleander
Nerium oleander 'White' / White Oleander
Pennisetum x 'Fairy Tails' / Evergreen Fountain Grass
Salvia greggii 'Furman's Red' / Furman's Red Salvia
Westringia fruticosa / Coast Rosemary - Space 4' o.c.
Xylosma congestum 'Compacta' / Compact Xylosma

SHRUB PALETTE - MEDIUM WATER USE
Buxus microphylla japonica 'Green Beauty' / Green Beauty Boxwood - Space 30" o.c.
Ligustrum texanum / Texas Privet - Space 3'-6" o.c.
Nandina domestica / Heavenly Bamboo
Phormium tenax 'Amazing Red' / Dwarf Red Flax
Rhaphiolepis indica 'Jack Evans' / Indian Hawthorn
Rosa floribunda 'Iceberg' / Iceberg Rose

GROUND COVER PALETTE - LOW WATER USE - 1 GAL
Acacia redolens 'Desert Carpet' TM / Bank Catclaw Space 4' o.c.
Lantana montevidensis 'New Gold' / Trailing Lantana Space 3' o.c.
Lonicera japonica 'Halliana' / Halls Honeysuckle Flowering Vine
Rosmarinus officinalis 'Huntington Carpet' / Huntington Carpet Rosemary - Space 3' o.c.

GROUND COVER PALETTE - MEDIUM WATER USE - 1 GAL
Dianella tasmanica 'Case Blue' / Flax Lily
Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily
Pennisetum spathiolatum / Rye Puffs
Rosa x 'Noare' Flower Carpet Red / Rose
Trachelospermum jasminoides / Chinese Star Jasmine

NOTES

1. ALL TREES WITHIN 6' OF HARDSCAPE SHALL BE IN A SHAWTOWN LINEAR (WRAP AROUND NOT ALLOWED) ROOT BARRIER 24" HIGH LINEAR ROOT BARRIER SHALL BE CENTERED ON TREE AND EXTEND 5' IN BOTH DIRECTIONS FOR A TOTAL OF 10'
2. NOTE: QUANTITIES AND AREA CALCULATIONS SHOWN IN LEGEND ARE FOR REFERENCE ONLY . CONTRACTOR REPONSIBLE FOR ALL QUANTITY TAKE-OFFS AND AREA CALCULATIONS FOR DETERMINING COST AND DELIVERY OF MATERIALS TO SITE.

SHREDDED MULCH NOTE

ALL PLANTER AREAS TO RECEIVE A 3" LAYER OF SHREDDED COVER MULCH AVAILABLE FROM EARTHWORKS (951)782-0260

0 30 60 90 120 feet
1" = 30'

NORTH

REVISIONS

Environs
LANDSCAPE ARCHITECTURE
Creating Sustainable & Water Conserving Solutions
1545 S. Bridgeport Avenue • Claremont, CA 91711
Ph: (909) 626-1676 • Fax: (909) 626-0434

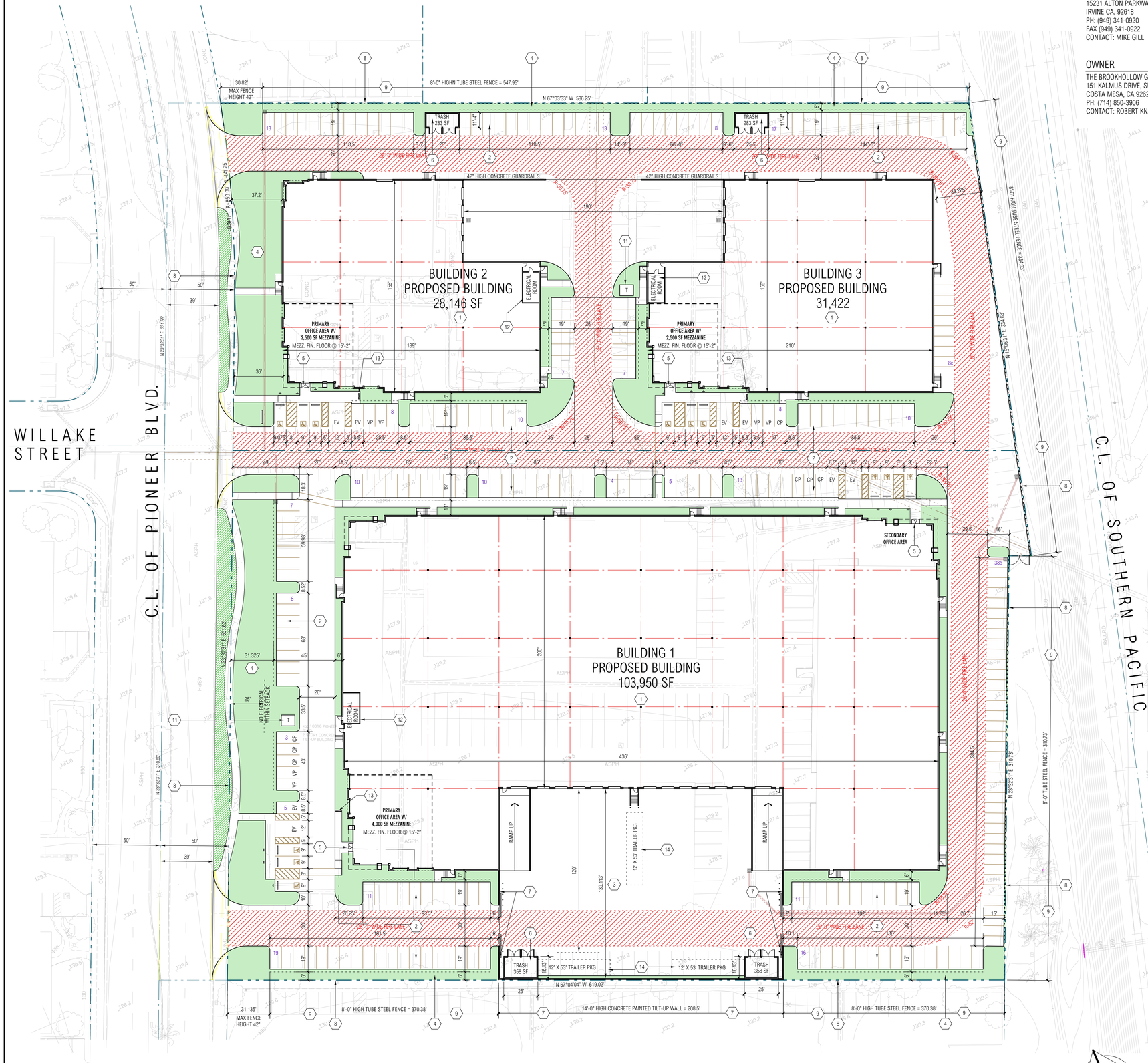
DEVELOPED BY:
THE BROOKHOLLOW GROUP
151 KALMUS DRIVE, SUITE F-1
COSTA MESA, CA 92626.
CONTACT: ROBERT KNAPP
PH: 714-850-3906

SHEET TITLE:
PRELIMINARY LANDSCAPE PLAN

PROPOSED DEVELOPMENT
PIONEER BLVD. DEVELOPMENT
0000 PIONEER BLVD.
SANTA FE SPRINGS, CA

LICENSED LANDSCAPE ARCHITECT
BRETT K. FRANK
3419
Signature
10/31/18
Renewal Date
STATE OF CALIFORNIA

DRAWN BY: BFK
DATE: 09-25-18
JOB NO.: RGA00109
SHEET NO.: L-1
1 OF 1 SHTS.



SITE PLAN

SCALE: 1" = 30'-0"

APPLICANT

RGA, OFFICE OF ARCHITECTURAL DESIGN, INC.
15231 ALTON PARKWAY SUITE 100
IRVINE CA, 92618
PH: (949) 341-0920
FAX (949) 341-0922
CONTACT: MIKE GILL

OWNER

THE BROOKHOLLOW GROUP
151 KALMUS DRIVE, SUITE F-1
COSTA MESA, CA 92626
PH: (714) 850-3906
CONTACT: ROBERT KNAPP

PROJECT DATA - BUILDING 1:

ZONE:	ML
SITE AREA:	221,462 SF / 5.08 AC
FOOTPRINT AREA:	99,950 SF
FIRST FLOOR OFFICE:	4,000 SF
SECOND FLOOR AREA	4,000 SF
TOTAL BUILDING AREA:	103,950 SF
COVERAGE:	45.12 %
F.A.R.:	46.93 %
PARKING REQUIRED:	
0 - 20,000 SF (1/500 SF)	40 STALLS
20,001 SF - 100,000 SF (1/750 SF)	107 STALLS
100,001 SF - 200,000 SF (1/1,000 SF)	4 STALLS
200,001 SF AND ABOVE (1/2,000 SF)	00 STALLS
TOTAL STALLS	151 STALLS
PARKING PROVIDED:	
ACCESSIBLE STALLS	6 STALLS
STANDARDS STALLS	118 STALLS
COMPACT STALLS (25% MAX)	38 STALLS
TOTAL STALLS	162 STALLS
BICYCLE PARKING STALLS 5% OF MOTORIZED VEHICLES (CAL GREEN)	8 STALLS
1-BICYCLE STALL SHALL BE DESIGNATED FOR LONG TERM PARKING	1 STALLS
TOTAL BICYCLE STALLS PROVIDE	9 STALLS
LANDSCAPE REQUIRED:	
FRONTAGE: 25' X 388' = 9,700 SF	9,700 SF
6% OF PARKING AREA) = 25,945 SF X .06	1,557 SF
TOTAL LANDSCAPE REQUIRED:	11,257 SF
LANDSCAPE PROVIDED: (13,224 SF PARKING LANDSCAPE)	22,420 SF
TRAILER PARKING REQUIRED:	3 TRAILERS
1 TRAILER (12' X 53') PER 4 DOCK LOADING DRS FOR BUILDINGS OVER 100,000 SF (11 DOORS PROVIDED)	
TRAILER PARKING PROVIDED:	3 TRAILERS

GENERAL NOTES:
1. NO MORE THAN 15% OFFICE BUILDOUT IS ANTICIPATED.

TRASH AREA CALCULATION

REQUIRED TRASH AREA:	
1 % FOR THE FIRST 20,000 SF	200 SF
1/2% FOR AFTER 20,000 SF	420 SF
TOTAL REQUIRED	620 SF
PROVIDED TRASH AREA	716 SF

PROJECT DATA - BUILDING 2 AND 3:

ZONE:	ML
SITE AREA:	141,817 SF / 3.26 AC
FOOTPRINT AREA:	54,530 SF
FIRST FLOOR OFFICE:	5,000 SF
SECOND FLOOR AREA	5,000 SF
TOTAL BUILDING AREA:	59,530 SF
COVERAGE:	38.45 %
F.A.R.:	41.97 %
PARKING REQUIRED:	
0 - 40,000 SF (1/500 SF)	80 STALLS
40,001 SF - 100,000 SF (1/750 SF)	26 STALLS
100,001 SF - 200,000 SF (1/1,000 SF)	00 STALLS
200,001 SF AND ABOVE (1/2,000 SF)	00 STALLS
TOTAL STALLS	106 STALLS
PARKING PROVIDED:	
ACCESSIBLE STALLS	6 STALLS
STANDARDS STALLS	95 STALLS
COMPACT STALLS (25% MAX)	8 STALLS
TOTAL STALLS	109 STALLS
BICYCLE PARKING STALLS 5% OF MOTORIZED VEHICLES (CAL GREEN)	5 STALLS
1-BICYCLE STALL SHALL BE DESIGNATED FOR LONG TERM PARKING	1 STALLS
TOTAL BICYCLE STALLS PROVIDE	6 STALLS
LANDSCAPE REQUIRED:	
FRONTAGE: 25' X 254' = 6,350 SF	6,350 SF
6% OF PARKING AREA) = 35,683 SF X .06	2,141 SF
TOTAL LANDSCAPE REQUIRED:	8,491 SF
LANDSCAPE PROVIDED: (10,913 SF PARKING LANDSCAPE)	16,673 SF

GENERAL NOTES:
1. NO MORE THAN 15% OFFICE BUILDOUT IS ANTICIPATED.

TRASH AREA CALCULATION

REQUIRED TRASH AREA:	
1 % FOR THE FIRST 20,000 SF	200 SF
1/2% FOR AFTER 20,000 SF	198 SF
TOTAL REQUIRED	398 SF
PROVIDED TRASH AREA	566 SF

KEYNOTES: (00)

1. PROPOSED PAINTED CONCRETE TILT-UP INDUSTRIAL BUILDING.
2. TYPICAL PARKING STALL - 8.5' X 19'. STRIPING PER CITY STANDARDS.
3. TRUCK YARD W/ DOCK HIGH AND GRADE LEVEL TRUCK DOORS.
4. LANDSCAPING - SEE CONCEPT LANDSCAPE PLAN.
5. PRIMARY BUILDING ENTRANCE.
6. 6'-0" CONCRETE PAINTED TRASH ENCLOSURE AND ROOF COVER LOCATIONS.
7. CONCRETE 14'-0" HIGH SCREENWALL WITH 10'-0" HIGH TUBE STEEL SLIDING GATE.
8. PROPERTY LINES.
9. PROPOSED 8'-0" HIGH BLACK TUBE STEEL FENCE.
11. ELECTRICAL TRANFORMER TO BE SCREENED BY LANDSCAPE.
12. ELECTRICAL EQUIPMENT TO BE LOCATED IN THE ELECTRICAL ROOM.
13. BIKE RACK LOCATION.
14. TRAILER PARKING POSITIONS PER CITY STANARDS.

GENERAL NOTES:

1. EXISTING STRUCTURES ONSITE TO BE REMOVED.
2. CONCEPTUAL MONUMENT SIGN LOCATIONS ARE PROVIDED ONLY. NO SIGNS ARE PROPOSED WITH THIS APPLICATION PACKAGE.
3. ALL PROPOSED NEW ON-SITE UTILITY SERVICES SHALL BE UNDERGROUNDED.
4. DRIVEWAYS SHALL BE CONSTRUCTED PER CITY STANDARD PLAN.
5. DAMAGED SECTIONS OF CURB & GUTTER ALONG PIONEER BLVD. SHALL BE REPAIRED.
6. STATE OF CALIFORNIA "GENERAL CONSTRUCTION NPDES PERMITS AND WDID NUMBERS MUST BE OBTAINED PRIOR TO PERMIT.
7. PROVIDE 1 FOOTCANDLE MIN. THROUGH-OUT THE DEVELOPMENT AND SHALL BE APPROVED BY THE POLICE SERVICES DEPARTMENT.

PROJECT INFORMATION

ASSESSOR PARCEL NUMBER (S):	8005-010-011
GENERAL PLAN DESIGNATION:	BUSINESS PARK
ZONE DESIGNATION:	ML (LIMITED MANUFACTURING)
CONSTRUCTION TYPE:	III-B
OCCUPANCY:	B/ S-1

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Office of Architectural Design
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FX 949-341-0922

CONSULTANT

PROFESSIONAL SEALS

PIONEER BLVD. DEVELOPMENT

0000 PIONEER BLVD
SANTA FE SPRINGS, CA

THE BROOKHOLLOW GROUP
151 KALMUS DRIVE, SUITE F-1
COSTA MESA, CA 92626
PHONE: 714-850-3906
ROBERT KNAPP

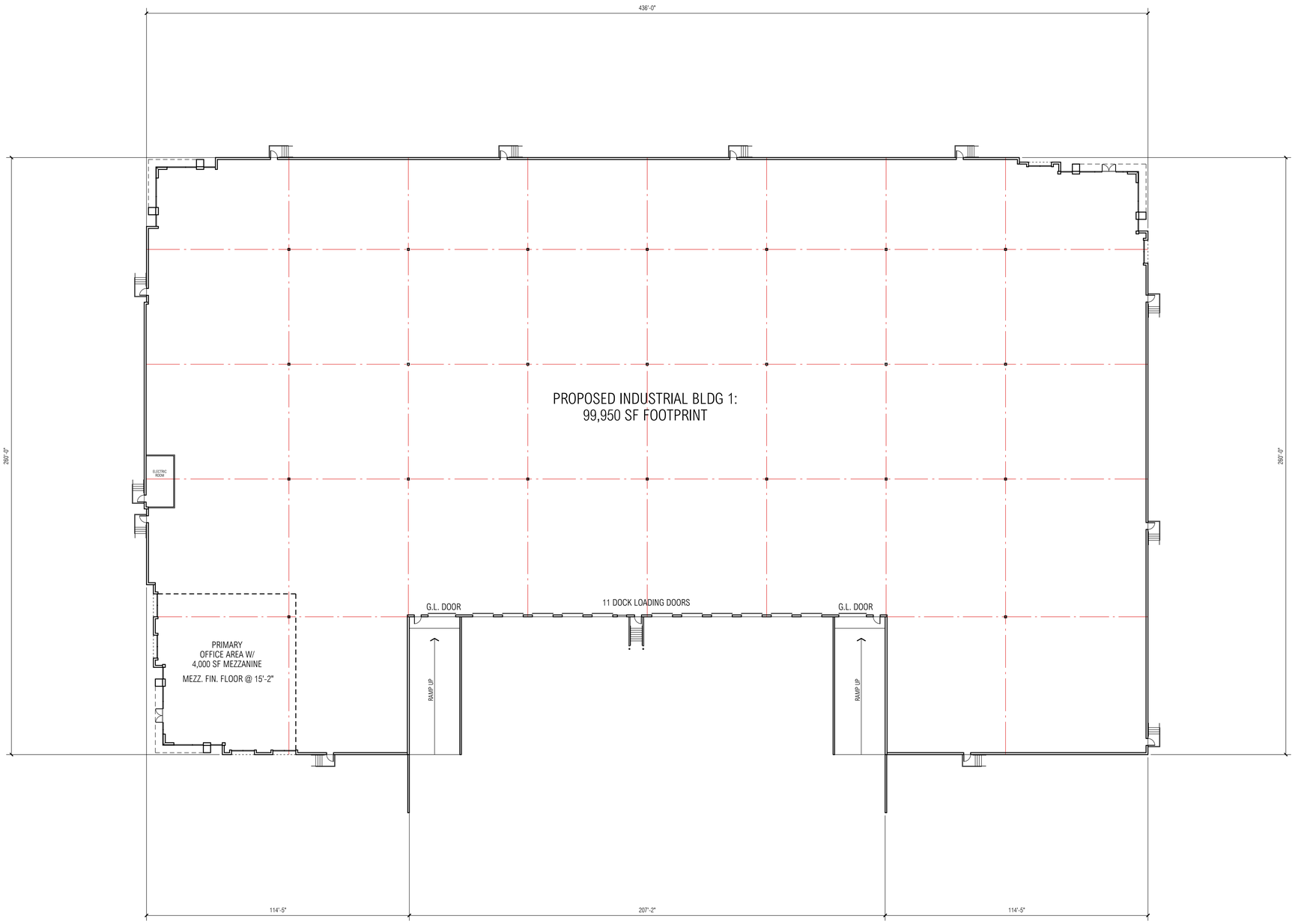
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SHEET TITLE
SITE PLAN

SHEET: AA1-1P



FLOOR PLAN

SCALE: 1" = 10'-0"

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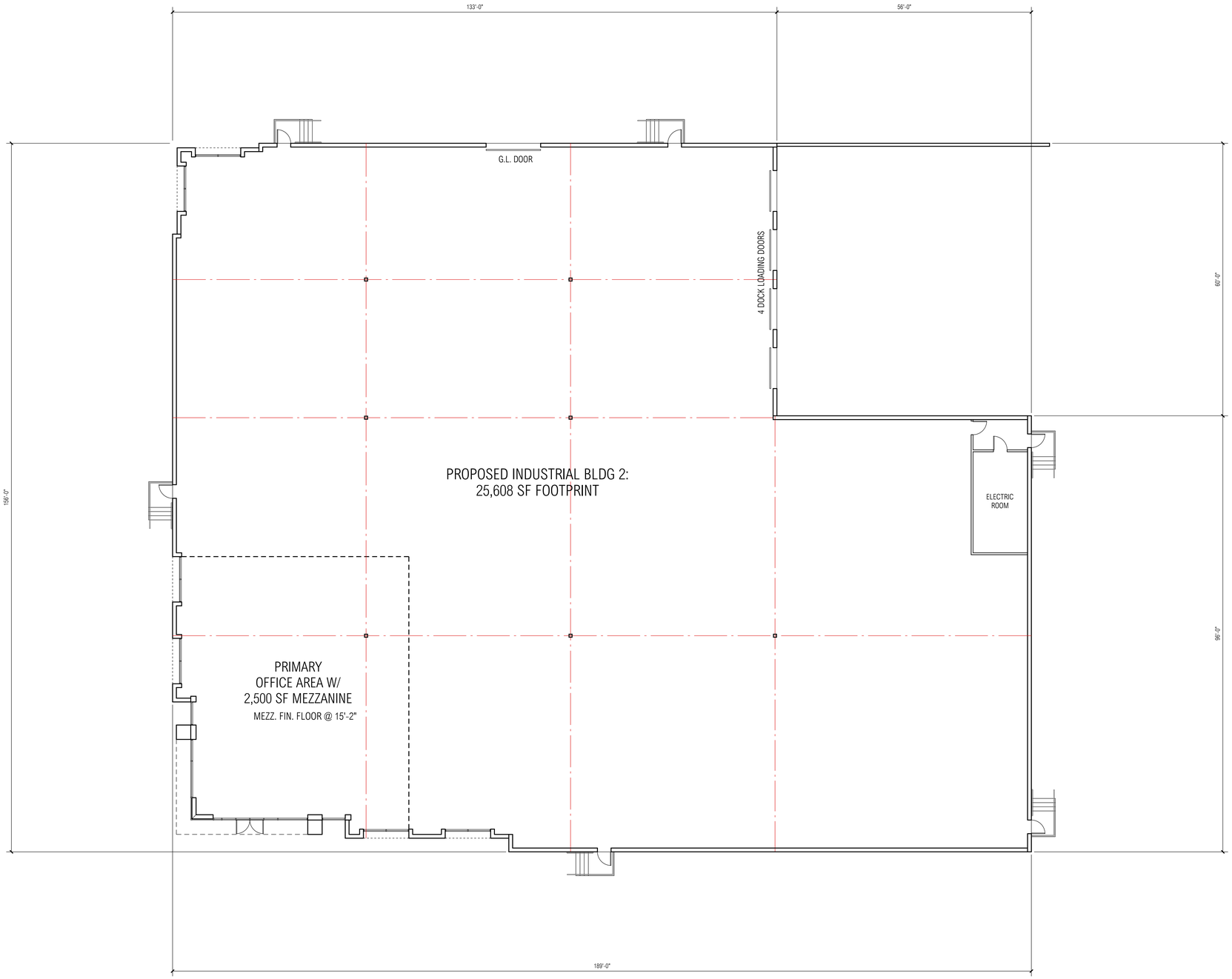
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SHEET TITLE

FLOOR PLAN - BUILDING 1

SHEET: 1A2-1P



FLOOR PLAN

SCALE: 1" = 10'-0"

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SANTA FE SPRINGS, CA

THE BROOKHOLLOW GROUP
151 KALMUS DRIVE, SUITE F-1
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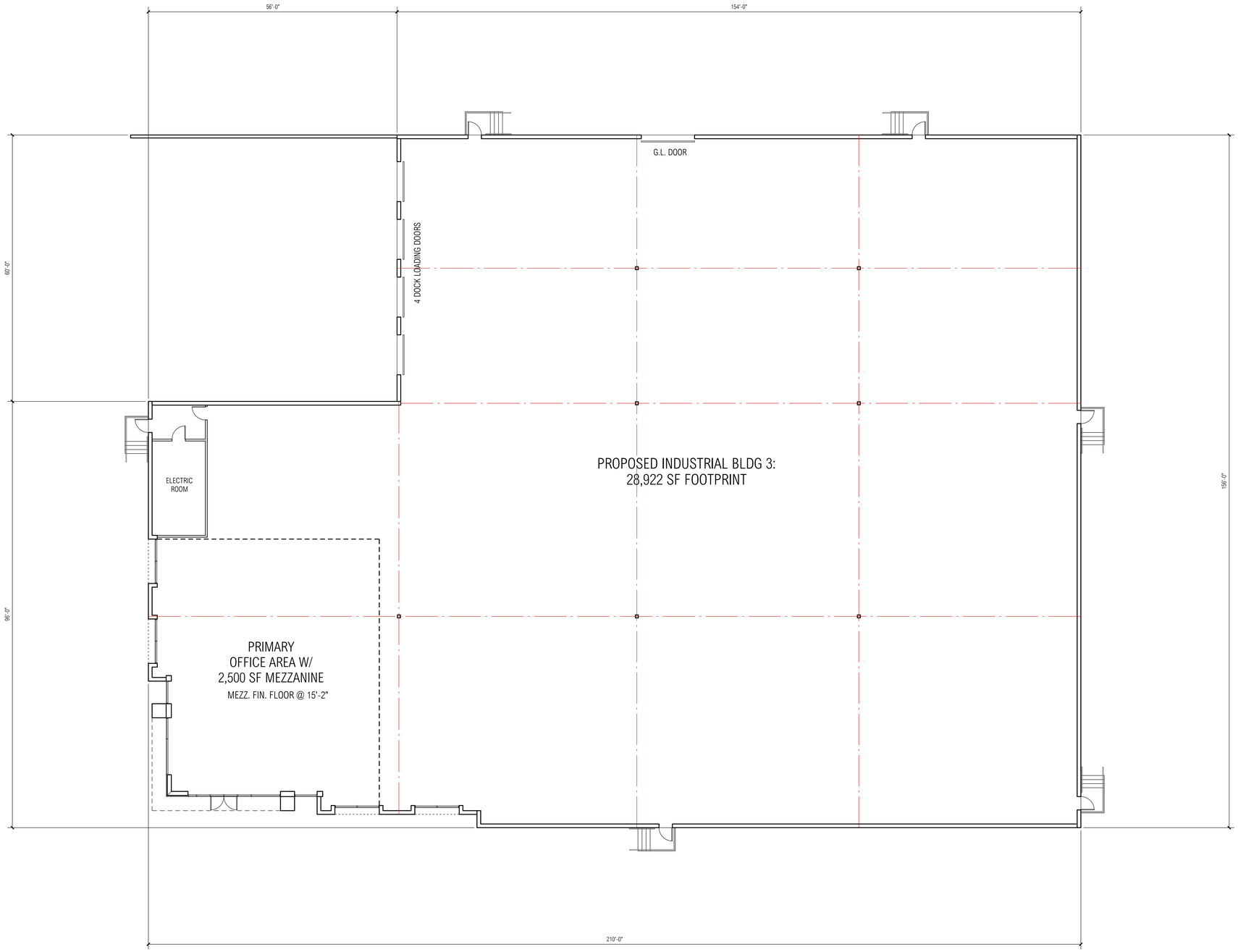
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SHEET TITLE

FLOOR PLAN - BUILDING 2

SHEET: 2A2-1P



FLOOR PLAN

SCALE: 1" = 10'-0"

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SANTA FE SPRINGS, CA

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COSTA MESA, CA 92626
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ROBERT KNAPP

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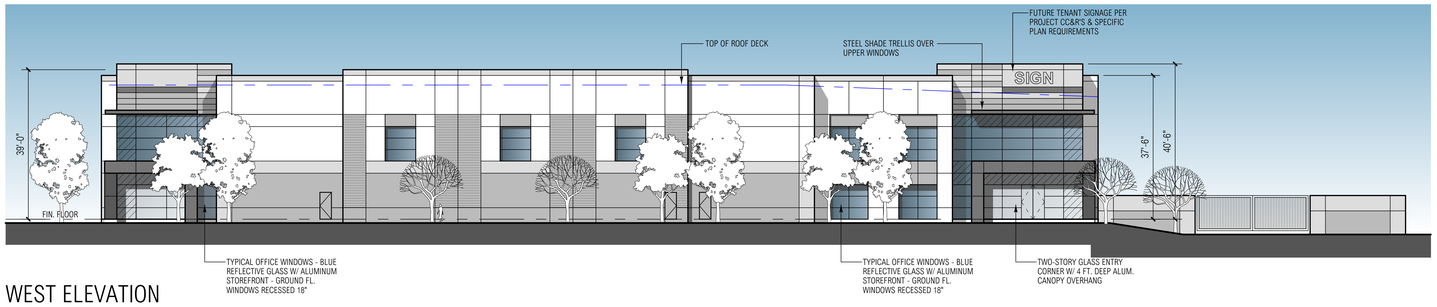
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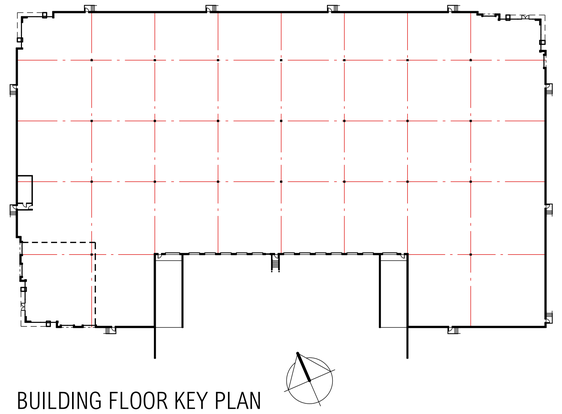
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FLOOR PLAN - BUILDING 3

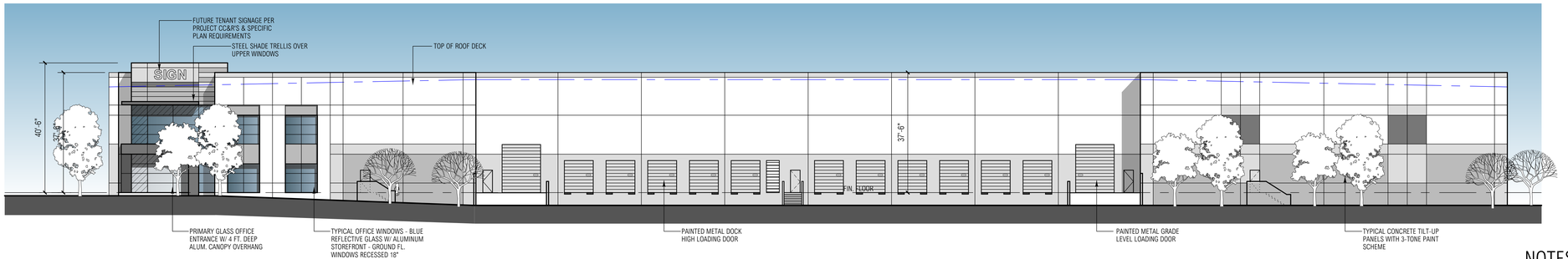
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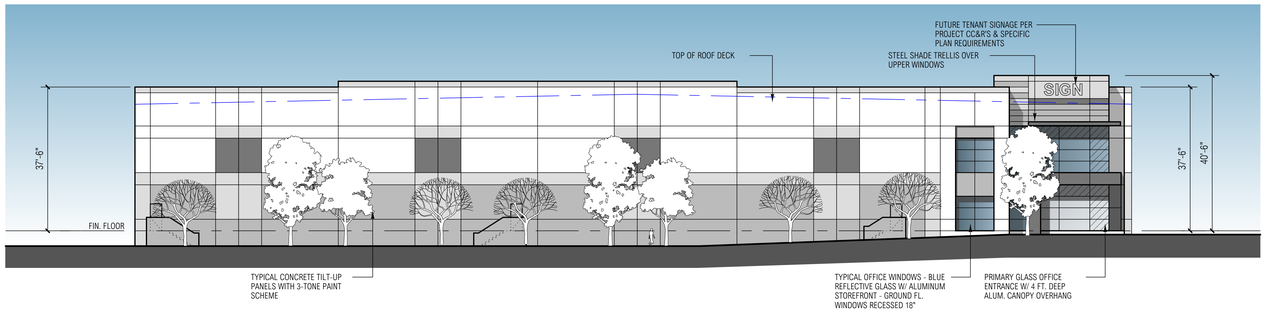
WEST ELEVATION



BUILDING FLOOR KEY PLAN



SOUTH ELEVATION



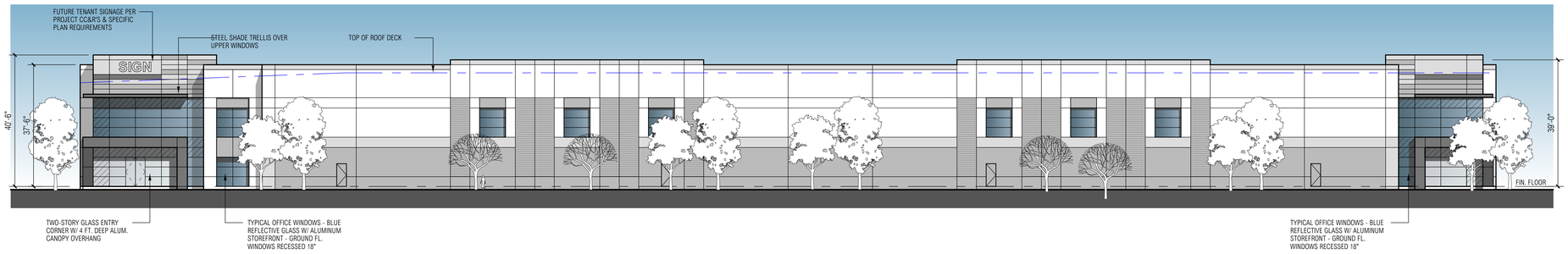
EAST ELEVATION



SIMILAR SITE LIGHTING STYLE (2)
SCALE: N.T.S.



SIMILAR ENTRY LIGHTING STYLE (1)
SCALE: N.T.S.



NORTH ELEVATION

NOTES:

1. ALL ROOFTOP MECH. EQUIPMENT SHALL BE SCREENED FROM VIEW.

2. PROVIDE GRAFFITI RESISTANT COATING TO A HEIGHT OF 12 FEET ON THE WEST ELEVATION.

FINISH SCHEDULE:

1. FIELD COLOR
   FRAZEE - CL 3211W - WASH BASIN
2. LIGHT ACCENT COLOR
   FRAZEE - CL 3214M - WAVELENGTH
3. DARK ACCENT COLOR
   FRAZEE - CL 3215D - ELF
4. DARK ACCENT COLOR
   FRAZEE - CL 3216A - BRAINCHILD
5. CANOPIES - ALUCOBOND:
   NATURAL BRUSHED GRAPHITE
6. GLASS - PRIMARY WINDOW
   PPG SOLARCOOL PACIFICA
7. GLASS - ACCENT COLOR AT ENTRIES
   PPG VISTACOOL PACIFICA

BUILDING 1 ELEVATIONS

SCALE: 1/16" = 1'-0"
0' 5' 10' 20' 40'

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CONSULTANT

PROFESSIONAL SEALS

PIONEER BLVD.
DEVELOPMENT

0000 PIONEER BLVD
SANTA FE SPRINGS, CA

THE BROOKHOLLOW GROUP
151 KALMUS DRIVE, SUITE F-1
COSTA MESA, CA 92626
PHONE: 714-850-3906
ROBERT KNAPP

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MARK	DATE	DESCRIPTION

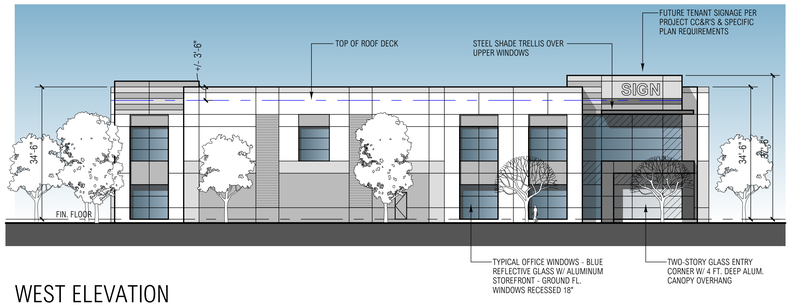
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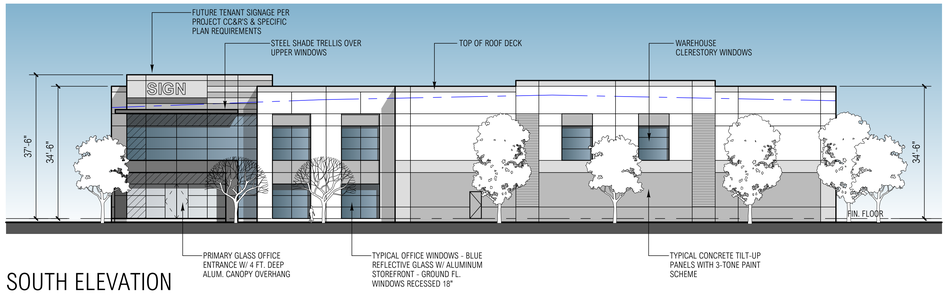
SHEET TITLE

EXTERIOR ELEVATION - BUILDING 1

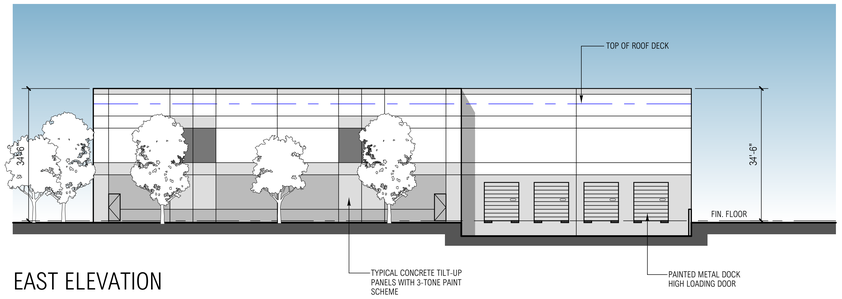
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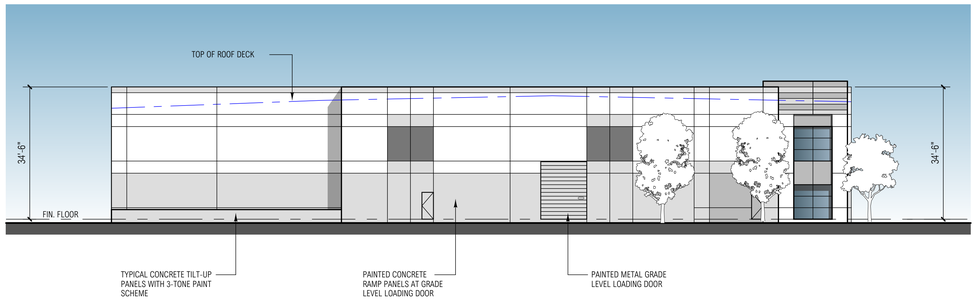
WEST ELEVATION



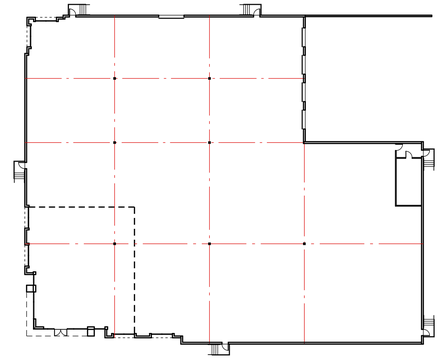
SOUTH ELEVATION



EAST ELEVATION



NORTH ELEVATION



BUILDING FLOOR KEY PLAN



SIMILAR SITE LIGHTING STYLE (2)
SCALE: N.T.S.



SIMILAR ENTRY LIGHTING STYLE (1)
SCALE: N.T.S.

NOTES:

1. ALL ROOFTOP MECH. EQUIPMENT SHALL BE SCREENED FROM VIEW.

2. PROVIDE GRAFFITI RESISTANT COATING TO A HEIGHT OF 12 FEET ON THE WEST ELEVATION.

FINISH SCHEDULE:

1. FIELD COLOR
   FRAZEE - CL 3211W - WASH BASIN
2. LIGHT ACCENT COLOR
   FRAZEE - CL 3214M - WAVELENGTH
3. DARK ACCENT COLOR
   FRAZEE - CL 3215D - ELF
4. DARK ACCENT COLOR
   FRAZEE - CL 3216A - BRAINCHILD
5. CANOPIES - ALUCOBOND:
   NATURAL BRUSHED GRAPHITE
6. GLASS - PRIMARY WINDOW
   PPG SOLARCOOL PACIFICA
7. GLASS - ACCENT COLOR AT ENTRIES
   PPG VISTACOOL PACIFICA

BUILDING 2 ELEVATIONS

SCALE: 1/16" = 1'-0"
0' 5' 10' 20' 40'

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FX 949-341-0922

CONSULTANT

PROFESSIONAL SEALS

PIONEER BLVD.
DEVELOPMENT

0000 PIONEER BLVD
SANTA FE SPRINGS, CA

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PHONE: 714-850-3906
ROBERT KNAPP

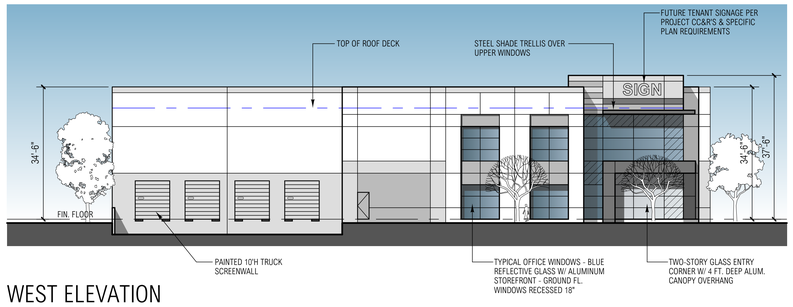
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SD		
SD		
SD	3/25/19	SCHEMATIC DESIGN

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OWNER PROJECT NO:	00000.00
CAD FILE NAME:	14088.00.2A3-1P
DRAWN BY:	MG
CHK'D BY:	CS

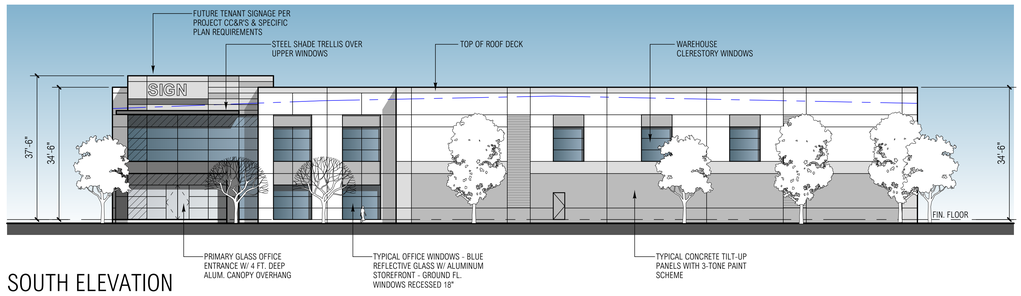
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SHEET TITLE
EXTERIOR ELEVATION - BUILDING 2

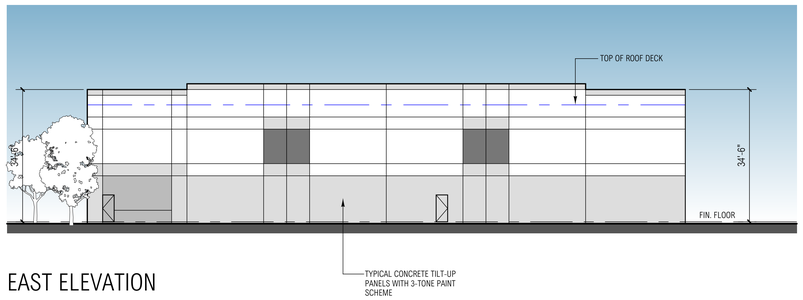
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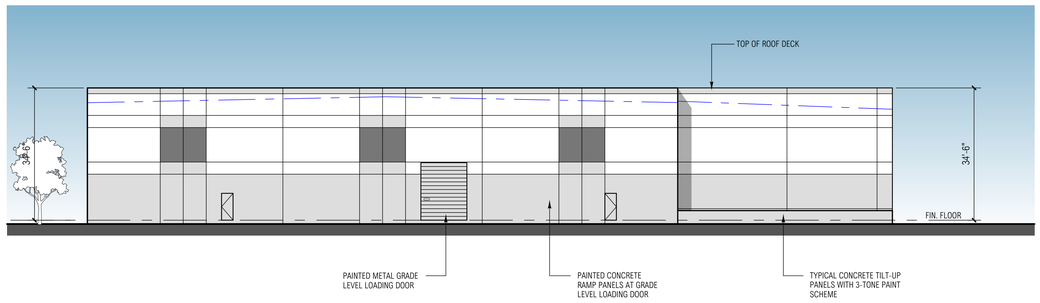
WEST ELEVATION



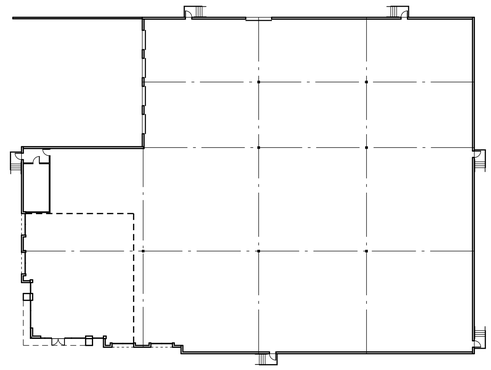
SOUTH ELEVATION



EAST ELEVATION



NORTH ELEVATION



BUILDING FLOOR KEY PLAN



SIMILAR SITE LIGHTING STYLE (2)
SCALE: N.T.S.



SIMILAR ENTRY LIGHTING STYLE (1)
SCALE: N.T.S.

NOTES:

1. ALL ROOFTOP MECH. EQUIPMENT SHALL BE SCREENED FROM VIEW.

2. PROVIDE GRAFFITI RESISTANT COATING TO A HEIGHT OF 12 FEET ON THE WEST ELEVATION.

FINISH SCHEDULE:

1. FIELD COLOR
FRAZEE - CL 3211W - WASH BASIN
2. LIGHT ACCENT COLOR
FRAZEE - CL 3214M - WAVELENGTH
3. DARK ACCENT COLOR
FRAZEE - CL 3215D - ELF
4. DARK ACCENT COLOR
FRAZEE - CL 3216A - BRAINCHILD
5. CANOPIES - ALUCOBOND:
NATURAL BRUSHED GRAPHITE
6. GLASS - PRIMARY WINDOW
PPG SOLARCOOL PACIFICA
7. GLASS - ACCENT COLOR AT ENTRIES
PPG VISTACOOL PACIFICA

BUILDING 3 ELEVATIONS

SCALE: 1/16" = 1'-0"
0' 5' 10' 20' 40'

RGA
Office of Architectural Design
15231 Alton Parkway, Suite 100
Irvine, CA 92618
T 949-341-0920
FX 949-341-0922

CONSULTANT

PROFESSIONAL SEALS

PIONEER BLVD.
DEVELOPMENT

0000 PIONEER BLVD
SANTA FE SPRINGS, CA

THE BROOKHOLLOW GROUP
151 KALMUS DRIVE, SUITE F-1
COSTA MESA, CA 92626
PHONE: 714-850-3906
ROBERT KNAPP

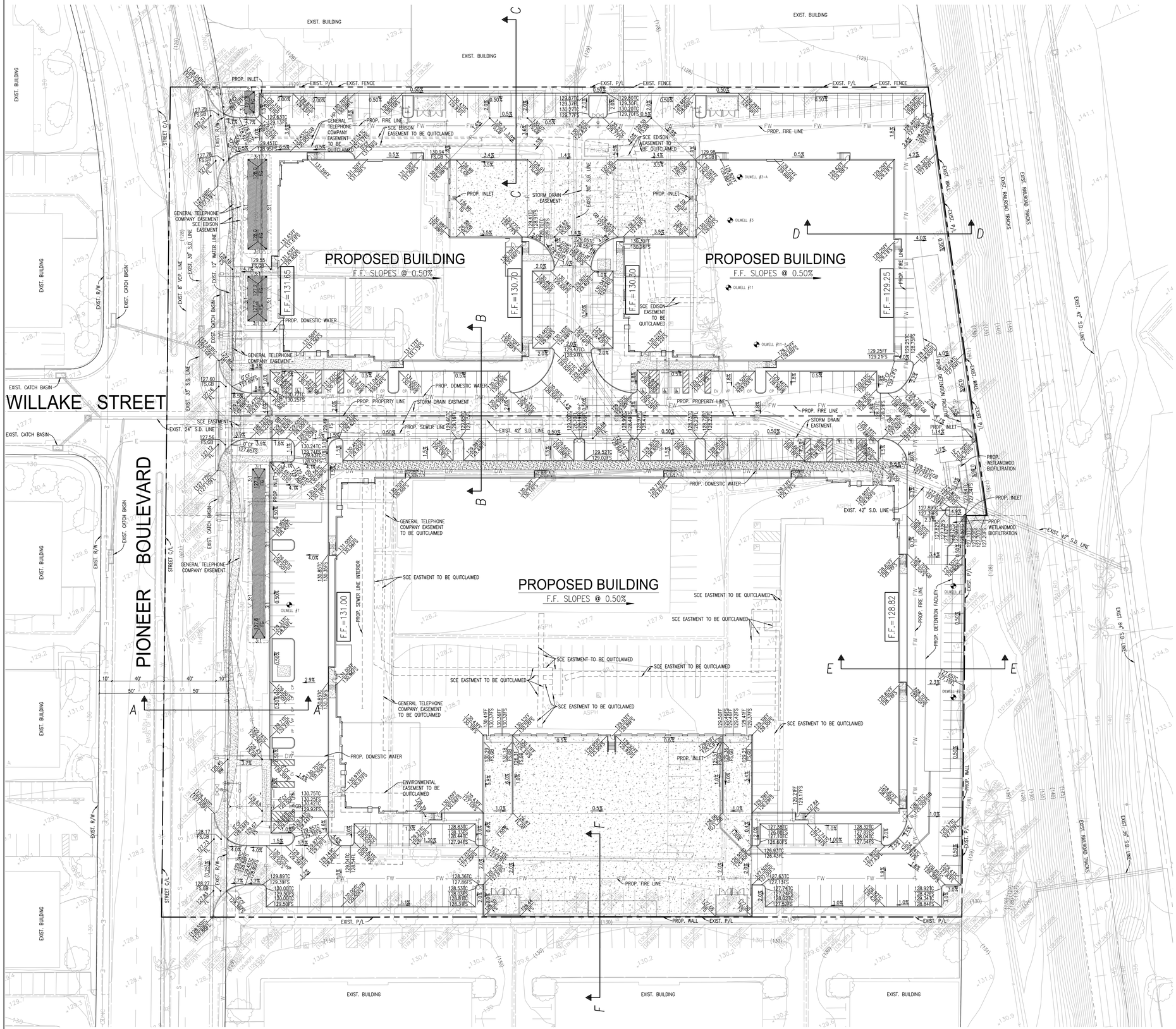
MARK	DATE	DESCRIPTION
SD		
SD		
SD	3/25/19	SCHEMATIC DESIGN

RGA PROJECT NO:	14088.00
OWNER PROJECT NO:	00000.00
CAD FILE NAME:	14088.00.3A3-1P
DRAWN BY:	MG
CHK'D BY:	CS

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RGA, OFFICE OF ARCHITECTURAL DESIGN

SHEET TITLE
EXTERIOR ELEVATION - BUILDING 3

SHEET: 3A3-1P



30 15 0 30 60

SCALE IN FEET
1 inch = 30 ft.

RGA

Office of Architectural Design

15231 Alton Parkway, Suite 100
Irvine, CA 92618

T 949-341-0920
FX 949-341-0922

CONSULTANT

WALDEN & ASSOCIATES

CIVIL ENGINEERS • PLANNERS • LAND SURVEYORS
2552 WHITE ROAD, SUITE B, IRVINE, CA 92614
(949) 660-0110 FAX: 660-0418

PROFESSIONAL SEALS

PIONEER BLVD. DEVELOPMENT

PIONEER BLVD.
SANTA FE SPRINGS, CA

THE BROOKHOLLOW GROUP
151 KALMUS DRIVE, SUITE F-1
COSTA MESA, CA 92626
PHONE: 714-850-3906
ROBERT KNAPP

CD		
BID		
PC		
DD		
SD	2/11/19	ENTITLEMENT SUBMITTAL
MARK	DATE	DESCRIPTION

RGA PROJECT NO:	14088.00
OWNER PROJECT NO:	00000.00
CAD FILE NAME:	14088-00-AA1-1P
DRAWN BY:	MG
CHK'D BY:	CS

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RGA, OFFICE OF ARCHITECTURAL DESIGN

SHEET TITLE

PRELIMINARY GRADING PLAN

SHEET: C1-1

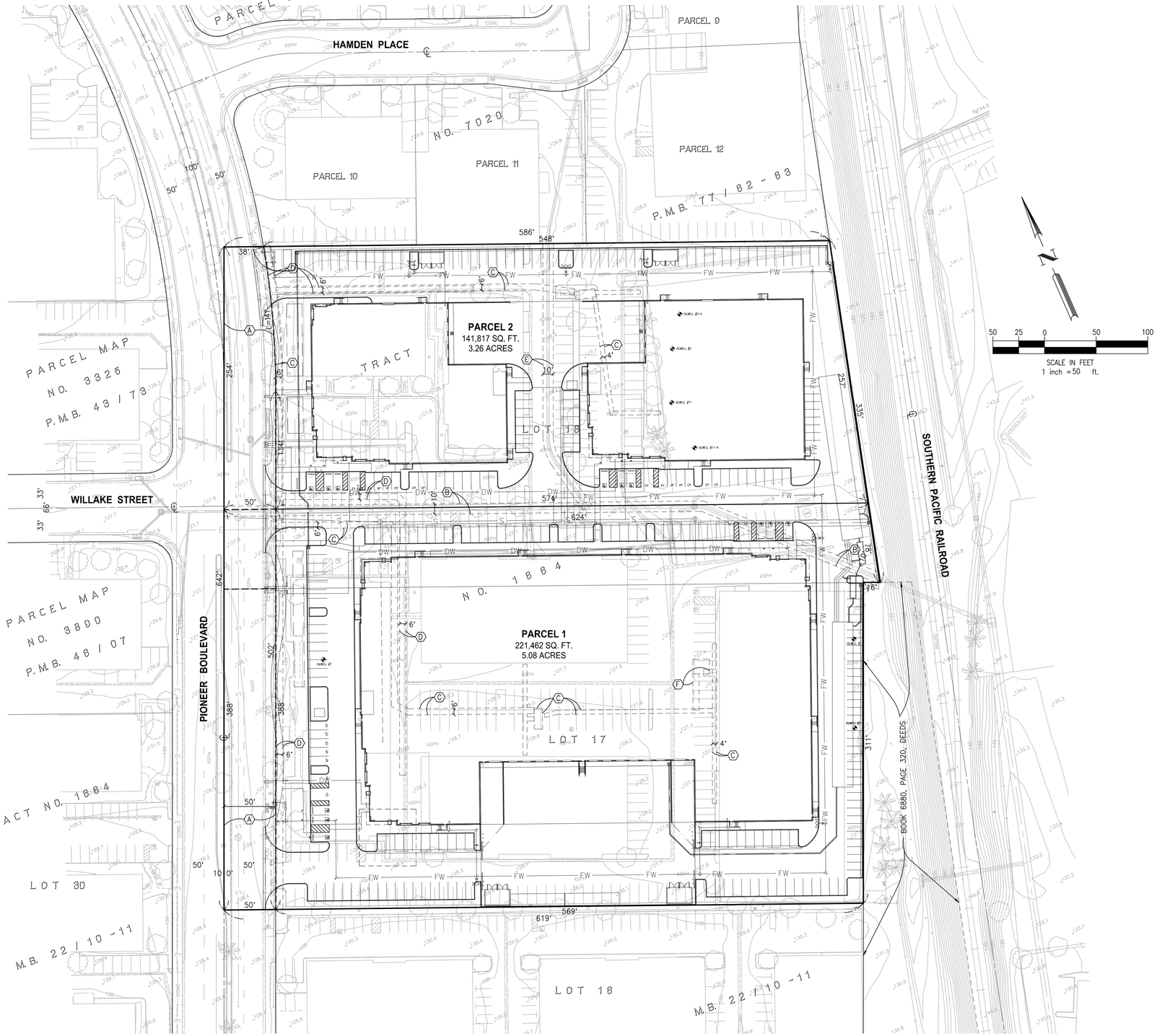
Attachment 10 – Tentative Parcel Map No. 82433

TENTATIVE
PARCEL MAP NO. 82433
FOR CONDOMINIUM PURPOSES

IN THE CITY OF SANTA FE SPRINGS, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

WALDEN & ASSOCIATES
JEFFREY A. WALDEN, P.L.S. 7914

FEBRUARY 2019



LEGAL DESCRIPTION:

PARCEL 1:

LOT 18 OF TRACT NO. 1664, IN THE CITY OF SANTA FE SPRINGS, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 22, PAGES 10 AND 11 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY. EXCEPT THEREFROM THAT PORTION THEREOF WITHIN THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE SOUTHEASTERLY CORNER OF SAID LOT 18; THENCE NORTH 67°03' 43" WEST 30.28 FEET ALONG THE SOUTHERLY LINE OF SAID LOT 18, TO A POINT IN A LINE THAT IS PARALLEL WITH AND DISTANT NORTHWESTERLY 30.00 FEET AT RIGHT ANGLES, FROM THE EASTERLY LINES OF SAID LOTS 18 AND 20; THENCE NORTH 15° 06' 10" EAST 535.69 FEET ALONG SAID PARALLEL LINE, TO A POINT; THENCE NORTH 21°06' 31" EAST 286.75 FEET TO A POINT IN THE EASTERLY LINE OF SAID LOT 20; THENCE SOUTH 15°06' 10" WEST 825.00 FEET ALONG THE EASTERLY LINE OF SAID LOTS 18 AND 20 TO THE POINT OF BEGINNING.

ALSO EXCEPT THAT PORTION OF SAID LAND WHICH LIES BELOW A DEPTH OF 500 FEET MEASURED VERTICALLY FROM THE SURFACE THEREOF, WITHOUT THE RIGHT TO USE THAT PORTION OF SAID LAND LYING ABOVE SAID EXCEPTED PORTION, AS EXCEPTED BY SANTA GERTRUDES LAND COMPANY, IN THE DEED RECORDED MARCH 14, 1972, AS INSTRUMENT NO. 442, OF OFFICIAL RECORDS.

PARCEL 2:
THAT PORTION OF LOT 17 OF TRACT NO. 1664, IN THE CITY OF SANTA FE SPRINGS, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 22, PAGES 10 AND 11 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWESTERLY CORNER OF SAID LOT 17; THENCE EASTERLY ALONG THE NORTHERLY LINE OF SAID LOT, 618.99 FEET TO THE NORTHWESTERLY CORNER OF THE LAND DESCRIBED IN THE DEED TO FRANK PIPPINGER AND WIFE, BY DEED RECORDED JULY 12, 1919, IN BOOK 6880, PAGE 320, OF DEEDS; THENCE SOUTHERLY ALONG THE WESTERLY LINE OF SAID LAST MENTIONED LAND, 310.72 FEET TO THE SOUTHERLY LINE OF SAID LOT 17; THENCE WESTERLY ALONG SAID SOUTHERLY LINE 618.99 FEET TO THE SOUTHWESTERLY CORNER OF SAID LOT; THENCE NORTHERLY ALONG THE WESTERLY LINE OF SAID LOT, 310.75 FEET TO THE POINT OF BEGINNING.

EXCEPT THAT PORTION OF SAID LAND WHICH LIES BELOW A DEPTH OF 500 FEET MEASURED VERTICALLY FROM THE SURFACE THEREOF, WITHOUT THE RIGHT TO USE THAT PORTION OF SAID LAND LYING ABOVE SAID EXCEPTED PORTION, AS EXCEPTED BY SANTA GERTRUDES LAND COMPANY, IN THE DEED RECORDED MARCH 14, 1972, AS INSTRUMENT NO. 442, OF OFFICIAL RECORDS.

EASEMENT LEGEND:

(A) INDICATES AN EASEMENT IN FAVOR OF THE CITY OF SANTA FE SPRINGS, FOR STREET, PUBLIC UTILITY AND MUINICIPAL PURPOSES, RECORDED SEPTEMBER 25, 1972 AS INSTRUMENT NO. 2530, IN BOOK D-5613, PAGE 322 OF OFFICIAL RECORDS.

(B) INDICATES AN EASEMENT IN FAVOR OF THE CITY OF SANTA FE SPRINGS, FOR DRAINAGE PURPOSES, RECORDED JANUARY 15, 1973 AS INSTRUMENT NO. 3190 OF OFFICIAL RECORDS.

(C) INDICATES AN EASEMENT IN FAVOR OF SOUTHERN CALIFORNIA EDISON COMPANY, FOR UTILITY PURPOSES, RECORDED DECEMBER 26, 1973 AS INSTRUMENT NO. 856 OF OFFICIAL RECORDS.

(D) INDICATES AN EASEMENT IN FAVOR OF GENERAL TELEPHONE COMPANY OF CALIFORNIA, FOR PUBLIC UTILITY PURPOSES, RECORDED MAY 20, 1974 AS INSTRUMENT NO. 3145, OF OFFICIAL RECORDS.

(E) INDICATES AN EASEMENT IN FAVOR OF BOONE-SOUTHERN, A JOINT VENTURE, FOR STORM DRAIN PURPOSES, RECORDED FEBRUARY 10, 1977 AS INSTRUMENT NO. 77-145018 OF OFFICIAL RECORDS.

(F) INDICATES AN EASEMENT IN FAVOR OF SOUTHERN CALIFORNIA EDISON COMPANY, FOR PUBLIC UTILITY PURPOSES, RECORDED MARCH 28, 1991 AS INSTRUMENT NO. 91-440619, OF OFFICIAL RECORDS.

EXISTING SITE INFORMATION:

ASSESSOR PARCEL NUMBER:	8005-010-011
SITE ADDRESS:	9920, 9926, 9930, 10002, 10010, 10016 & 10020 PIONEER BLVD.
GENERAL PLAN LAND USE:	BUSINESS PARK
ZONE:	ML – MANUFACTURING LIMITED
AREA:	9.06 ACRES – 394,849 SQ. FT. GROSS
	8.34 ACRES – 363,279 SQ. FT. NET

PROPOSED SITE INFORMATION:

ALL EXISTING DWELLINGS, BUILDINGS OR OTHER STRUCTURES ON THE PROPERTY WILL BE REMOVED.

NUMBER OF INDUSTRIAL PARCELS: 2 NUMBERED

PROPOSED PARCELS AREA:

PARCEL 1:	5.53 ACRES – 240,854 SQ. FT. GROSS
	5.08 ACRES – 221,462 SQ. FT. NET
PARCEL 2:	3.53 ACRES – 153,995 SQ. FT. GROSS
	3.26 ACRES – 141,817 SQ. FT. NET

EASEMENTS FOR SHARED INGRESS/EGRESS, ACCESS, PARKING, PARCEL DRAINAGE, EMERGENCY VEHICLE ACCESS, PRIVATE UTILITIES, LANDSCAPING AND MAINTENANCE RESPONSIBILITIES FOR THESE AND OTHER INCIDENTAL PURPOSES ARE TO BE ADDRESSED UNDER CC&R'S TO BE RECORDED CONCURRENTLY WITH THE PARCEL MAP.

OWNER:
THE BROOKHOLLOW GROUP
151 KALMUS DR., SUITE F-1
COSTA MESA, CA 92626
MR. ROBERT KNAPP
714-850-3906

APPLICANT:
RGA, OFFICE OF ARCHITECTURAL DESIGN
15231 ALTON PARKWAY, SUITE 100
IRVINE, CA 92618
MR. MIKE GILL
949-341-0920

LAND SURVEYOR:
WALDEN & ASSOCIATES
2552 WHITE RD, SUITE B
IRVINE, CA 92614
JEFFREY WALDEN
949-660-0110

08/06/2019

NUMBER	DESCRIPTION	DATE	INITIAL

REVISIONS

PROFESSIONAL LAND SURVEYOR — JEFFREY ALLEN WALDEN — No. 7914 — STATE OF CALIFORNIA

WALDEN & ASSOCIATES
CIVIL ENGINEERS
LAND SURVEYORS
PLANNERS
2552 WHITE ROAD, SUITE B, IRVINE, CA 92614
(949) 660-0110 FAX: 660-0118

02/11/2019
JEFFREY A. WALDEN PLS 7914 DATE

TENTATIVE PARCEL MAP NO. 82433
FOR CONDOMINIUM PURPOSES

PIONEER BOULEVARD
INDUSTRIAL DEVELOPMENT

SANTA FE SPRINGS, CALIFORNIA

JOB NUMBER	1963-940-001
DATE:	02/11/19
DRAWN:	BJW
CHECKED:	MP
SHEET	1 OF 1

CONSENT ITEM

Development Plan Approval Case Nos. 930, 931, 932, and 933

A request for a time extension of Development Plan Approval (DPA) Case Nos 930 - 933 to allow the construction of four (4) new concrete tilt-up industrial buildings, ranging from 58,463 sq. ft. to 121, 124 sq. ft., located on the northwest corner of Telegraph Road and Santa Fe Springs Road (APNs 8005-015-011, 8005-015-013, 8005-015-023, 8005-015-024, 8005-015-025, 8005-015-026, and 8005-015-027), within the M-2, Heavy Manufacturing Zone and Telegraph Road Corridor. (Breitburn Operating L.P.)

RECOMMENDATIONS

- Find and determine that granting a one (1) year time extension of Development Plan Approval Nos. 930, 931, 932, and 933 will not be detrimental to persons or properties in the surrounding area or to the City in general, and will be in conformance with the overall purpose and objective of the Zoning Ordinance and consistent with the goals, policies, and programs of the City's General Plan; and
- Approve a one (1) year time extension for Development Plan Approval Case Nos. 930, 931, 932, and 933 (until September 10, 2021), subject to the original conditions of approval for Development Plan Approval Nos. 930, 931, 932, and 933.

BACKGROUND/DESCRIPTION OF REQUEST

On September 10, 2018, the Planning Commission approved Development Plan Approval (DPA) Case Nos. 930, 931, 932, and 933 to allow the applicant, Breitburn Operating L.P, to construct four (4) new concrete tilt-up industrial buildings, ranging from 58, 463 sq. ft. to 121,124 sq. ft., located on the northwest corner of Telegraph Road and Santa Fe Springs Road. At the same meeting, the Planning Commission concurrently approved Tentative Parcel Map No. 78232 to allow for the reconfiguration of an approximately 44.67-acre site into five (5) parcels. The intent is to create independent parcels for each of the four proposed buildings and retain one parcel for oil extraction operations.

In accordance with Section 155.745 of the City's Zoning Ordinance (see Code Section below), a development plan approval, which has not been utilized within 12 months, shall become null and void. The Code, however, provides that an extension of time be granted by Commission or Council action.

City of Santa Fe Springs – Zoning Regulations
Section 155.745 – Expiration

Unless otherwise specified in the action granting development plan approval, said approval, which has not been utilized within a period of 12 consecutive, months from the effective date shall become null and void. In addition, the abandonment or nonuse of a development plate approval for a period of 12 consecutive months shall terminate said development plan approval and any privileges granted thereunder shall become null and void. However, an extension of time may be granted by Commission or Council action.

STAFF CONSIDERATIONS

The applicant, Brietburn Operating L.P., is currently in the process of abandoning or re-abandoning a minimum of twelve (12) oils wells, rerouting up to a mile of flowlines, and modernizing the electrical components, which service the remaining wells. Construction of the four (4) proposed industrial buildings are anticipated to begin in late summer 2021. As a result, the applicant is proactively requesting that the DPAs be extended until October 2021. It should be noted that staff understood the challenges of developing the subject site and therefore, DPA Case Nos. 930-933 were originally granted a 24-month validation period. To ensure the progress is continually being maintained, staff is recommending that the Planning Commission grant a one (1) year time extension, until September 10, 2021. If in one (1) year the applicant requires additional timing, they may submit a subsequent time extension request with an updated justification statement.

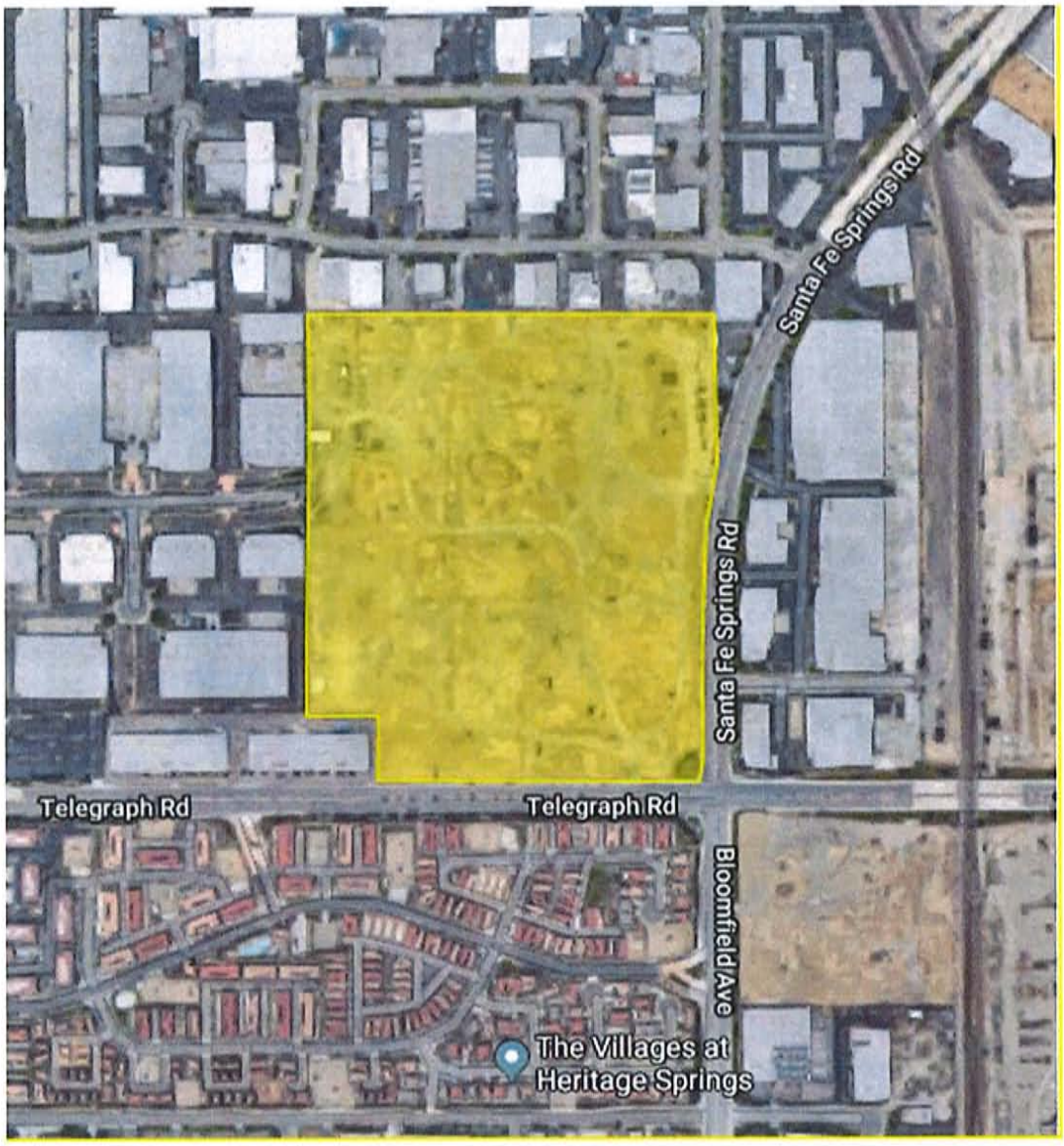
Wayne M. Morrell
Director of Planning

Attachments:
1. Aerial Photograph
2. Overall Site Plan
3. Request for Time Extension
4. September 10, 2018 PC Staff Report & Resolution No. 82-2018
5. Approval Letter dated September 19, 2018

Report Submitted By: Claudia Jimenez
Planning and Development Dept.

Date of Report: March 18, 2020

Attachment 1 – Aerial Photograph

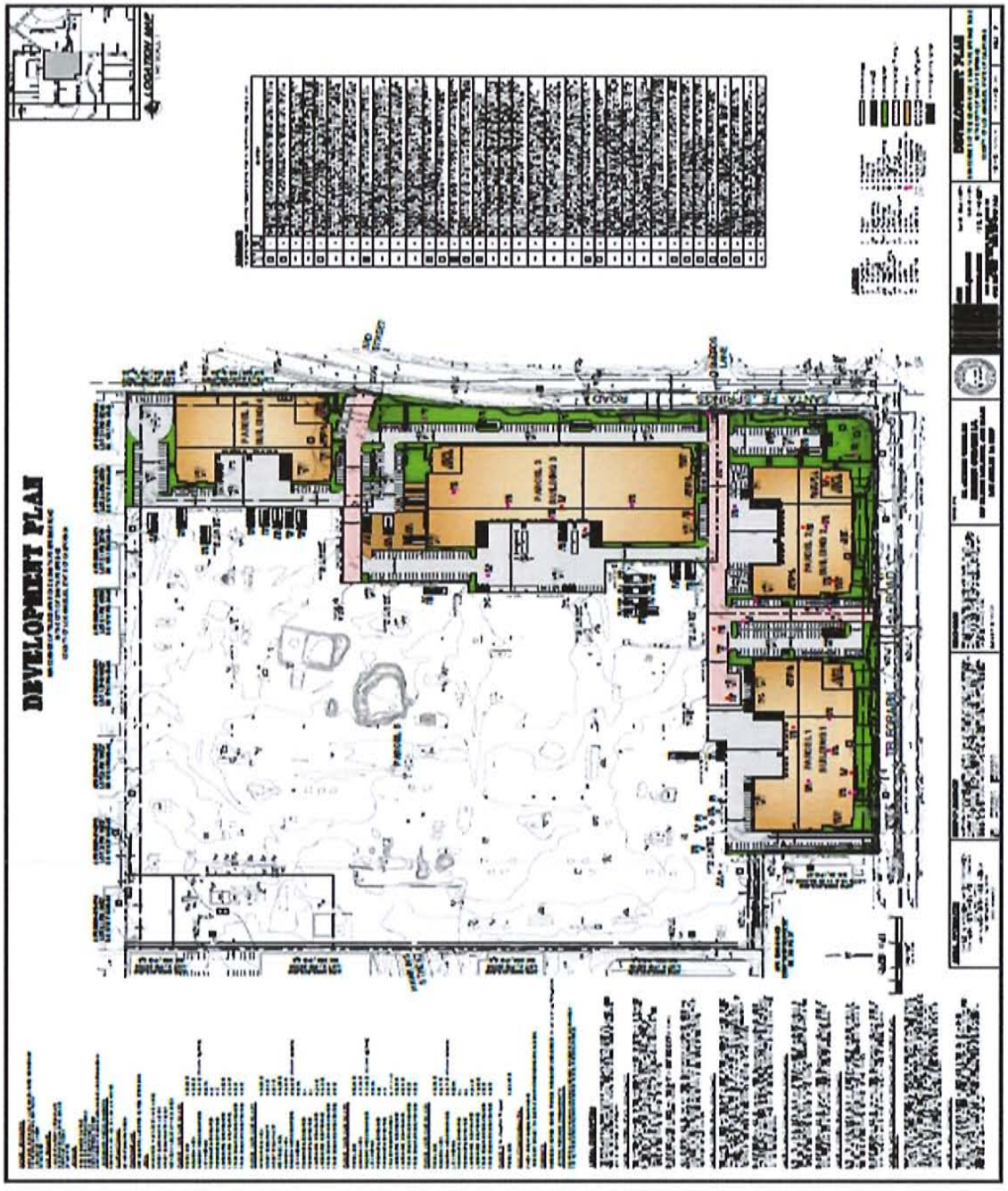


Development Plan Approval Case Nos. 930, 931, 932, and 933
NW Corner of Telegraph Road & Santa Fe Springs Road
Breitburn Operating L.P.

Report Submitted By: Claudia Jimenez
Planning and Development Dept.

Date of Report: March 18, 2020

Attachment 2 – Overall Site Plan



Attachment 3: Request for Time Extension

MAVERICK
NATURAL RESOURCES

Breitburn Operating LP
1111 Bagby Street • Suite 1600
Houston • Texas • 77002
713-437-8000

March 4, 2020

City of Santa Fe Springs
11710 E. Telegraph Road
Santa Fe Springs, CA 90670
Attn: Ms. Claudia Jimenez

Re: City of Santa Fe Springs Resolution No. 82-2018

Dear Ms. Jimenez,

Whereas, on September 10, 2018 the Planning Commission of the City of Santa Fe Springs adopted and approved the City of Santa Fe Springs Resolution No. 82-2018 being that resolution of the Planning Commission of the City of Santa Fe Springs Regarding Tentative Parcel Map No. 78232 & Development Plan Approval Case No. 930 & Development Plan Approval Case No. 931 & Development Plan Approval Case No. 932 & Development Plan Approval Case No. 933 in favor of Breitburn Operating L.P. (the "Resolution"); and

Whereas, the property owner is Breitburn Operating L.P., a wholly owned subsidiary of Maverick Natural Resources LLC, "Maverick" with primary address of 1111 Bagby Street, Suite 1600, Houston, Texas 77002; and

Whereas, since January of 2019 Maverick has spent close to ten million dollars in furtherance of the development contemplated in the Resolution including but not limited work related to the formalization of the design and access according to the desires of the City of Santa Fe Springs, the marketing costs associated with finding a partner to develop the surface, legal fees, taxes, filing costs, and the abandonment of eleven oil wells on the property; and

Whereas, on September 18, 2019 the Tentative Parcel Map No. 78232 was subdivided and recorded in Book 405 Page 7 of the Official Records of the County of Los Angeles, California; and

Whereas, Maverick has identified a partner for the extremely complex development of the property in accordance with the desires of the City of Santa Fe Springs; and

Whereas, the complexity of the project will require Maverick to spend millions of dollars on activities to make the properties in question are suitable for commercial construction including but not limited to the abandonment or re-abandonment of at least twelve oil wells, the rerouting of up to a mile of flowlines, the modernization of electrical components servicing remaining wells, legal and other fees, and anticipates completion of the project in the first quarter of 2021.

MAVERICK
NATURAL RESOURCES

Breitburn Operating LP
1111 Bagby Street • Suite 1600
Houston • Texas • 77002
713-437-8000

Once the referenced oil field work is completed we will be able to apply for the City's building permits and begin construction on the project itself. We anticipate the construction to begin in the late summer of 2021.

Now therefore, Maverick respectfully requests an extension of the entitlements granted in the City of Santa Fe Springs Resolution No. 82-2018 through October of 2021.

Sincerely,

Justin P. Foley
Vice President – Land

Attachment 4: September 10, 2018 PC Staff Report & Resolution

PUBLIC HEARING (continued from July 9, 2018 and August 13, 2018 PC meetings)
Adoption of Mitigated Negative Declaration
Tentative Parcel Map No. 78232
Development Plan Approval Case Nos. 930, 931, 932, and 933
A request to allow a 44.67-acre site consisting of seven parcels to be subdivided into five parcels and developed with:
DPA 930: a 78,417 sq. ft. building on a 4.28-acre parcel (Building 1);
DPA 931: a 58,463 sq. ft. building on a 3.53-acre parcel (Building 2);
DPA 932: a 121,124 sq. ft. building on a 6.85-acre parcel (Building 3);
DPA 933: a 60,117 sq. ft. building on a 3.23-acre parcel (Building 4);
The remaining 26.77-acre parcel will be reserved for oil extraction operations. The project site is located at the northwest corner of Telegraph Road and Santa Fe Springs Road (APNs 8005-015-011, 8005-015-013, 8005-015-023, 8005-015-024, 8005-015-025, 8005-015-026, and 8005-015-027), within the M-2, Heavy Manufacturing Zone and Telegraph Road Corridor. (Breitburn Operating L.P.)
**The Building Official has assigned the following addresses: 12451 Telegraph Road (Building 1), 12551 Telegraph Road (Building 2), 10251 Santa Fe Springs Road (Building 3), and 10051 Santa Fe Springs Road (Building 4).*

RECOMMENDATIONS:
That the Planning Commission take the following actions:

- Open the Public Hearing and receive any comments from the public regarding Tentative Parcel Map No. 78232 and Development Plan Approval Case Nos. 930, 931, 932 and 933 and, thereafter, close the Public Hearing; and
- Find and determine that the proposed project will not be detrimental to persons or properties in the surrounding area or to the City in general, and will be in conformance with the overall purpose and objective of the Zoning Regulations and consistent with the goals, policies and programs of the City's General Plan; and
- Find that Tentative Parcel Map No. 78232 meets the standards set forth in Sections 66474 and 66474.6 of the Subdivision Map Act for the granting of a tentative or final map; and
- Find that the applicant's request meets the criteria set forth in §155.739 of the Zoning Regulations, for the granting of a Development Plan Approval; and
- Approve and adopt the proposed Mitigated Negative Declaration with Traffic Study and Mitigation Monitoring and Reporting Program (IS/MND/MMRP) which, based on the findings of the Initial Study, indicates that there is no substantial evidence that the proposed project will have a significant adverse effect on the environment; and

- Approve Tentative Parcel Map No. 78232 and Development Plan Approval Case Nos. 930, 931, 932 and 933, subject to the conditions of approval as contained within Resolution 82-2018; and
- Adopt Resolution No. 82-2018, which incorporates the Planning Commission's findings and actions regarding this matter.

LOCATION & BACKGROUND

Tentative Parcel Map No. 78232 and Development Plan Approval Case Nos. 930, 931, 932 and 933 were originally scheduled to be heard at the July 9, 2018 Planning Commission meeting. The applicant requested a continuance to allow for additional time to review and confirm the conditions of approval, so the project was continued to the August 13, 2018 Planning Commission meeting. Prior to the August meeting, the applicant hired a new attorney who requested additional time to review the project as a whole. As such, the project was continued again to the September 10, 2018 Planning Commission meeting.

The subject site is located at the northwest corner of Telegraph Road and Santa Fe Springs Road. It is comprised of seven parcels and measures 44.67 acres in size. The site has been utilized for oil extraction operations since the 1920s, and Breitburn Operating L.P. has owned and operated the oil field since the 1990s. Today, the site is occupied by oil pumping jacks, pipes, construction materials, utility poles, electrical equipment, and six palm trees. Ground cover consists of dirt and gravel.

STREETS AND HIGHWAYS

Telegraph Road and Santa Fe Springs Road are both designated as Major Highways within the Circulation Element of the General Plan. Access to the site is currently provided by one driveway located along the north side of Telegraph Road and one driveway along the west side of Santa Fe Springs Road. New driveways will replace the existing driveways once the property is developed.

ZONING & GENERAL PLAN LAND USE DESIGNATION

The subject site is within the Telegraph Road Corridor and zoned M-2, Heavy Manufacturing. It is used for oil extraction operations. Properties to the west, north and east are zoned M-2 and utilized for various industrial purposes. The subject site and properties to the west, north and east have a General Plan Land Use designation of Industrial. The Villages at Heritage Springs residential development is located south of Telegraph Road and is zoned R-3-PD and R-1-PD (Multi-Family Residential – Planned Development and Single Family Residential – Planned Development). Properties to the south have a General Plan Land Use designation

of Multiple Family Residential and Single Family Residential.

PROJECT DESCRIPTION

The applicant, Breitburn Operating L.P., is proposing to subdivide the 44.67-acre site into five parcels. The largest parcel, measuring 26.77 acres and located in the western half of the overall site, will be reserved for oil extraction operations. The remaining four parcels, with a combined area of 17.90 acres and situated on the southern and eastern portions of the site, will be developed as an industrial business park. Nine producing oil and gas wells and water injection wells located within the proposed development will continue to operate undisturbed by the project. The proposed project requires approval of the following entitlements:

Tentative Parcel Map (TPM) 78232 – to allow the subdivision of an approximately 44.67-acre site into five (5) parcels measuring 186,493 sq. ft. (Proposed Parcel 1), 153,827 sq. ft. (Proposed Parcel 2), 298,474 sq. ft. (Proposed Parcel 3), 140,791 sq. ft. (Proposed Parcel 4), and 1,166,135 sq. ft. (Proposed Parcel 5). The intent is to create independent parcels for each of the four proposed buildings and retain one parcel for oil extraction operations.

Development Plan Approval (DPA) Case Nos. 930 - 933 – to allow the construction of four Class A speculation buildings with a total gross floor area of 318,121 sq. ft. DPA Case No. 930 is to allow the construction of a 78,417 sq. ft. concrete tilt-up building (Building 1); DPA Case No. 931 is to allow the construction of a 58,463 sq. ft. concrete tilt-up building (Building 2); DPA Case No. 932 is to allow the construction of a 121,124 sq. ft. concrete tilt-up building (Building 3); and DPA Case No. 933 is to allow the construction of a 60,117 sq. ft. concrete tilt-up building (Building 4).

DEVELOPMENT PLAN APPROVAL CASE NOs. 930 – 933

Site Plan

The applicant is proposing to develop an industrial business park consisting of four concrete tilt-up buildings on an active oil field site. Specific site plan details associated with each DPA are below:

- DPA 930 (Building 1) – Total site area of 4.28 acres (186,493 sq. ft.). The building will be set back 38'-9" from Telegraph Road.
- DPA 931 (Building 2) – Total site area of 3.53 acres (153,827 sq. ft.). After two street dedications to add right turn lanes (2,575 sq. ft. and 2,993 sq. ft.) the parcel will measure 3.40 acres (148,259 sq. ft.). The building will be set back 40' from Telegraph Road prior to street dedications, and set back 117' from Santa Fe Springs Road. This parcel contains an easement for the placement of artwork at the corner of Telegraph Road and Santa Fe Springs Road. This artwork easement will remain in place.
- DPA 932 (Building 3) – Total site area of 6.85 acres (298,474 sq. ft.). The

building will be set back 72'-6" from Santa Fe Springs Road.

- DPA 933 (Building 4) – Total site area of 3.23 acres (140,791 sq. ft.). The property is oriented so that 75' of frontage is provided along Santa Fe Springs Road to allow access to the site, but the majority of the parcel is located behind a neighboring triangular-shaped parcel. The odd shape of the neighboring parcel means that a majority of the parcel does not technically adjoin a street and therefore does not have a side yard setback requirement. Because of this, the building itself is located approximately 25' from Santa Fe Springs Road at its nearest point.

All four of the site plans will meet the development standards for properties within the M-2, Heavy Manufacturing zone. No Modification Permits or Zone Variances are required for the proposed development.

Floor Plan

The applicant is proposing to construct four speculation buildings with a combined gross floor area of 318,121 sq. ft. Each building is proposed to include a mezzanine above a main office area, but specific floor layouts and size of office areas will be dictated by the future tenants of these buildings.

- DPA 930 (Building 1) – 73,796 sq. ft. building with a 4,621 sq. ft. mezzanine for a gross floor area of 78,417 sq. ft.
- DPA 931 (Building 2) – 54,463 sq. ft. building with a 4,000 sq. ft. mezzanine for a gross floor area of 58,463 sq. ft.
- DPA 932 (Building 3) – 117,124 sq. ft. building with a 4,000 sq. ft. mezzanine for a gross floor area of 121,124 sq. ft.
- DPA 933 (Building 4) – 56,117 sq. ft. building with a 4,000 sq. ft. mezzanine for a gross floor area of 60,117 sq. ft.

Elevations

Architecture will be consistent throughout the development to create a distinctive and contemporary industrial business park. All four buildings will have a minimum height of 34' and a maximum height of 38'-6". The buildings will include many enhanced architectural elements including glass features, high image office corners, and facade and parapet movements throughout the elevations. The two buildings along Telegraph Road will have flexible design features to allow for future non-industrial users, such as wall openings for patios, eating areas and trellises. The buildings have been designed with multiple entries to allow future flexibility with the size of spaces.

Landscaping Requirements

The project will include 100,686 sq. ft. of new landscaping. Trees, plants, shrubs and meandering sidewalks will continue the urban forest theme along Telegraph Road.

- DPA 930 (Building 1) – 22,143 sq. ft. of landscaping will be provided (exceeds requirement). The entire setback area along Telegraph Road will be landscaped, as well as five-foot wide planters along the western property line and adjacent to the building.
- DPA 931 (Building 2) – 27,432 sq. ft. of landscaping will be provided (exceeds requirement). The entire setback area along Telegraph Road will be landscaped, as well as a majority of the setback area along Santa Fe Springs Road. The property will also include a landscaped strip along the west elevation.
- DPA 932 (Building 3) – 36,251 sq. ft. of landscaping will be provided (exceeds requirement). A 31' wide landscaped area will be provided between Santa Fe Springs Road and the parking area, as well as a 5' to 8' wide landscaped strip around the building.
- DPA 933 (Building 4) – 14,860 sq. ft. of landscaping will be provided (exceeds requirement). Given this parcel's limited street frontage, a majority of the landscaping is provided along the southern elevation.

Parking Requirements

The project will provide a total of 491 parking stalls and 4 truck parking stalls. Assuming single-tenant occupancy for each building, each parcel will provide sufficient parking to meet code standards. Overall, the site will have 20 stalls more than required by code:

- DPA 930 (Building 1) – 127 stalls (118 required)
- DPA 931 (Building 2) – 91 stalls (91 required)
- DPA 932 (Building 3) – 177 stalls (168 required); 4 truck parking stalls (4 required)
- DPA 933 (Building 4) – 96 stalls (94 required)

Should any of the buildings be occupied by more than one tenant in the future, the property owner will need to provide additional parking stalls or obtain a Modification Permit before subleasing the building.

Loading / Roll Up Doors

All four of the proposed buildings will have dock high doors and grade level doors to facilitate truck delivery and loading. All loading doors will be strategically placed so that they will not be visible from the public rights-of-way. In total, the development will have 44 loading doors:

- DPA 930 (Building 1) – 9 dock high doors and 1 grade level door will be installed on the building's north-facing elevation.
- DPA 931 (Building 2) – 9 dock high doors and 1 grade level door will be

installed on the building's north-facing elevation.
- DPA 932 (Building 3) – 13 dock high doors and 2 grade level doors will be installed on the building's west-facing elevation.
- DPA 933 (Building 4) – 8 dock high doors and 1 grade level door will be installed on the building's west-facing elevation.

Trash Enclosures

Each building will be provided with a sufficiently-sized trash enclosure:
- DPA 930 (Building 1) – one provided at the rear of the building measuring 492 sq. ft. (492 sq. ft. required)
- DPA 931 (Building 2) – one provided at the rear of the building measuring 392 sq. ft. (392 sq. ft. required)
- DPA 932 (Building 3) – two provided along the rear property line measuring 350 sq. ft. and 356 sq. ft. (706 sq. ft. required)
- DPA 933 (Building 4) – one provided at the rear of the building measuring 400 sq. ft. (400 sq. ft. required)

Driveways

Public access to the project site will be made possible by two driveways located along the west side of Santa Fe Springs Road and a third driveway located on the north side of Telegraph Road. A street dedication will be required to provide a new deceleration lane along Telegraph Road, which will help facilitate safe maneuvering into the development. A fourth driveway located on the north side of Telegraph Road just west of Building 1 will be reserved for emergency access only. All four buildings will participate in a reciprocal access agreement for shared use of the driveways.

It should be noted that access to parcel 5 (the remaining active oil field) will be provided through gates located at the rear property line of parcel 1 and parcel 3. If and when parcel 5 is developed in the future, access will be provided via Hawkins Street.

Oil Wells

The subject site has been operating as an oil field for nearly a century, therefore extensive fieldwork will need to occur before any development can begin. Such work will include well abandonment, well reabandonment, oilfield infrastructure removal, and oilfield infrastructure relocation. There are 19 non-abandoned wells within the project area. Ten of these wells will be abandoned and nine will remain active after the site is developed. Of the nine wells that will remain active, four are injection wells, where brine water produced with the oil is reinjected back into the formation it originated from. Oil produced from the active wells is currently and will continue to be transported via underground pipelines to the Breitburn Tank Farm located south of Telegraph Road and east of Santa Fe Springs Road. The site also

has 20 previously-abandoned wells. The applicant will be working with the Division of Oil, Gas, & Geothermal Resources (DOGGR) and the City to determine if the previously-abandoned wells will need to be re-abandoned. Details regarding the wells associated with each DPA are below:

- DPA 930 (Building 1) – Site has 7 previously-abandoned wells, 4 wells to be abandoned, and 1 active well to remain.
- DPA 931 (Building 2) – Site has 5 previously-abandoned wells, 3 wells to be abandoned, and 1 active well to remain.
- DPA 932 (Building 3) – Site has 8 previously-abandoned wells, 3 wells to be abandoned, and 7 active wells to remain.
- DPA 933 (Building 4) – There are no wells present on this site.

LEGAL NOTICE OF PUBLIC HEARING

This matter was set for Public Hearing in accordance with the requirements of Sections 65090 and 65091 of the State Planning, Zoning and Development Laws and the requirements of Sections 155.860 through 155.864 of the City's Municipal Code.

Legal notice of the Public Hearing for the proposed project was sent by first class mail on June 27, 2018 to all property owners whose names and addresses appear on the latest County Assessor's Roll within 500 feet of the exterior boundaries of the subject property. The legal notice was also posted in Santa Fe Springs City Hall, the City Library and the City's Town Center on June 27, 2018, and published in a newspaper of general circulation (Whittier Daily News) on June 27, 2018, as required by the State Zoning and Development Laws and by the City's Zoning Regulations.

As of the date of this report, staff has not received any comments and/or inquiries regarding the proposed project. The project was originally scheduled to be heard at the July 9, 2018 Planning Commission meeting, but the applicant requested two continuances. Since the case was set for public hearing, the Planning Commission opened the public hearing to receive comments at both the July 9, 2018 and August 13, 2018 Planning Commission meetings before taking action to continue the project to the next meeting date. No comments were received at either meeting.

ENVIRONMENTAL DOCUMENTS

The environmental analysis provided in the Initial Study indicates that the proposed project will not result in any significant adverse immitigable impacts on the environment; therefore, the City caused to be prepared and proposes to adopt a Mitigated Negative Declaration (MND) for the proposed project. The MND reflects the independent judgment of the City of Santa Fe Springs and the environmental consultant, Blodgett/Baylosis Environmental Planning, as to the potential environmental impacts of the proposed project on the environment.

The draft Initial Study/Mitigated Negative Declaration (IS/MND) identified several factors that may be potentially affected by the subject project, including Aesthetics, Greenhouse Gas Emissions, and Noise. These factors and their respective pertinent issues are discussed and analyzed within the IS/MND. Mitigations, where necessary, were implemented to help ensure the potential impacts are reduced to a less than significant level. A detailed analysis can be found in the IS/MND. The monitoring and reporting on the implementation of mitigation measures, including the monitoring action, monitoring agency, and the period for implementation, are identified in the Mitigation Monitoring and Reporting Program (attachment #11).

The draft Initial Study/Mitigated Negative Declaration was circulated for the required 20-day public review period from June 11, 2018 to July 2, 2018. A Notice of Intent to Adopt a Mitigated Negative Declaration was posted with the Los Angeles County Clerk and a copy of the Initial Study/Mitigated Negative Declaration was also mailed to surrounding cities for their review and comment.

Staff received one response to the IS/MND from the South Coast Air Quality Management District, who recommended that a mobile source air quality health risk assessment be performed. The environmental consultant had considered mobile sources of pollution when drafting the IS/MND, and a response letter describing their findings was sent to the South Coast Air Quality Management District on July 5, 2018. A copy of the comment letter and subsequent response are attached to this report (attachment #12). Staff finds that all concerns raised by the correspondent have been properly reviewed and addressed.

STAFF REMARKS

Based on the findings set forth in attached Resolution 82-2018, staff finds that Tentative Parcel Map No. 78232 is consistent with the policies and goals set forth in the General Plan, Subdivision Map Act and California Environmental Quality Act (CEQA) requirement. Staff also finds that the applicant's request meets the criteria set forth in §155.739 of the City's Zoning Regulations for the granting of Development Plan Approval. Therefore, staff recommends that the Planning Commission adopt Resolution 82-2018, which incorporates said findings as well as the conditions of approval related the subject proposal.

AUTHORITY OF PLANNING COMMISSION:

Tentative Parcel Map

The Planning Commission, after receiving and hearing the results of investigations and reports on the design and improvements of any proposed division of real property for which a tentative map is filed, shall have the authority to impose requirements and conditions upon such division of land and to approve, conditionally approve or disapprove such map and division of land.

Development Plan Approval

The Planning Commission has the authority, subject to the procedures set forth in the City's Zoning Regulations, to grant a Development Plan Approval when it has been found that said approval is consistent with the requirements, intent and purpose of the City's Zoning Regulations. The Commission may grant, conditionally grant or deny approval of a proposed development plan based on the evidence submitted and upon its own study and knowledge of the circumstances involved, or it may require submission of a revised development plan.

CONDITIONS OF APPROVAL:

Conditions of approval for TPM 78232 are attached to Resolution 82-2018 as Exhibit A, and conditions of approval for DPAs 930-933 are attached to Resolution 82-2018 as Exhibit B.

Wayne M. Morrell
Director of Planning

Attachments:

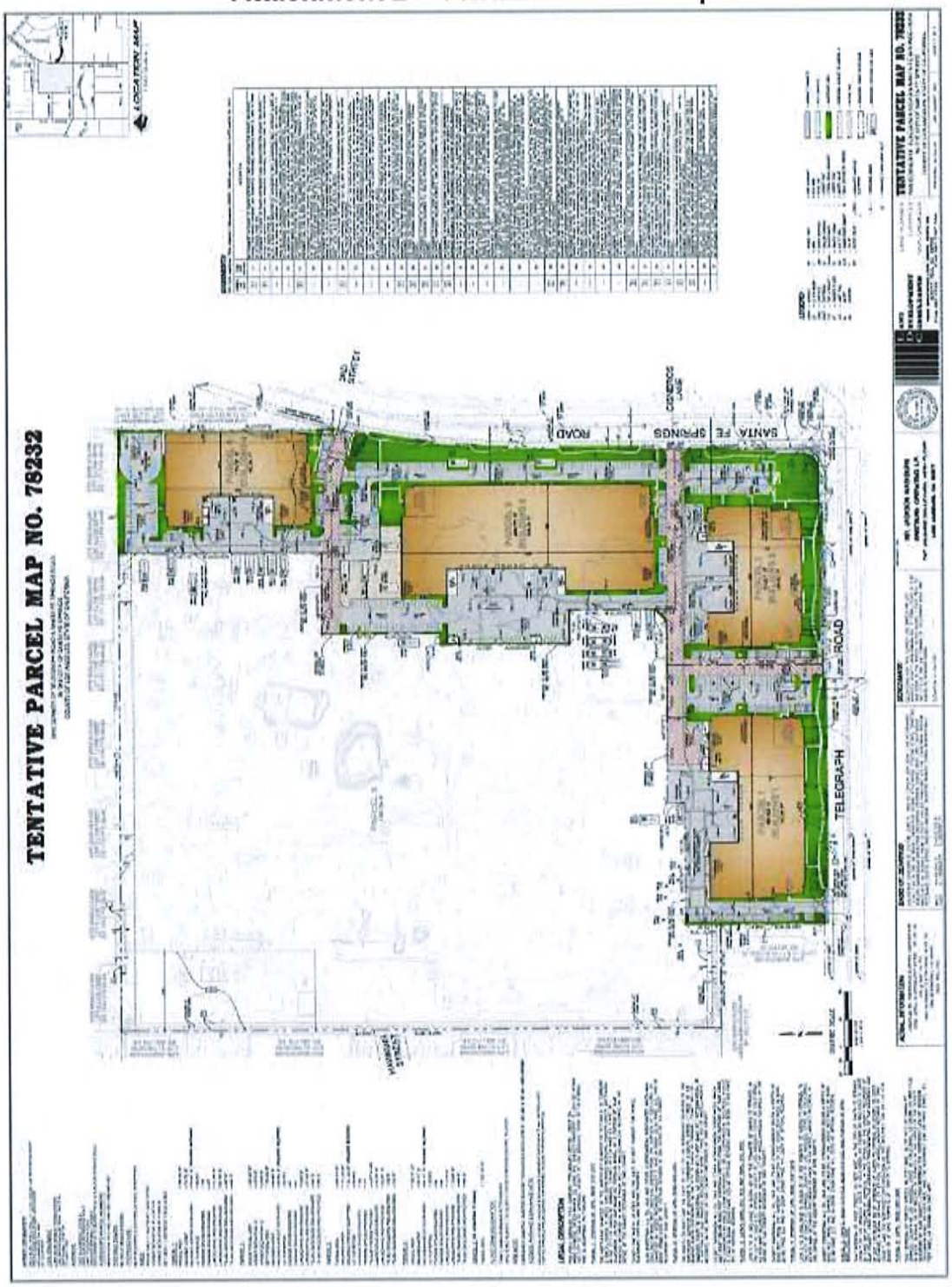
1. Aerial Photograph
2. Tentative Parcel Map
3. Site Plans
4. Elevations
5. Colored Rendering
6. Tentative Parcel Map Application
7. Development Plan Approval Application
8. Radius Map for Public Hearing Notice
9. Public Hearing Notice
10. IS/MND and Mitigation Monitoring and Reporting Program (previously provided to Planning Commissioners on July 2, 2018)
11. IS/MND Response to Comment Letter
12. Resolution 82-2018

Attachment 1 – Aerial Photograph

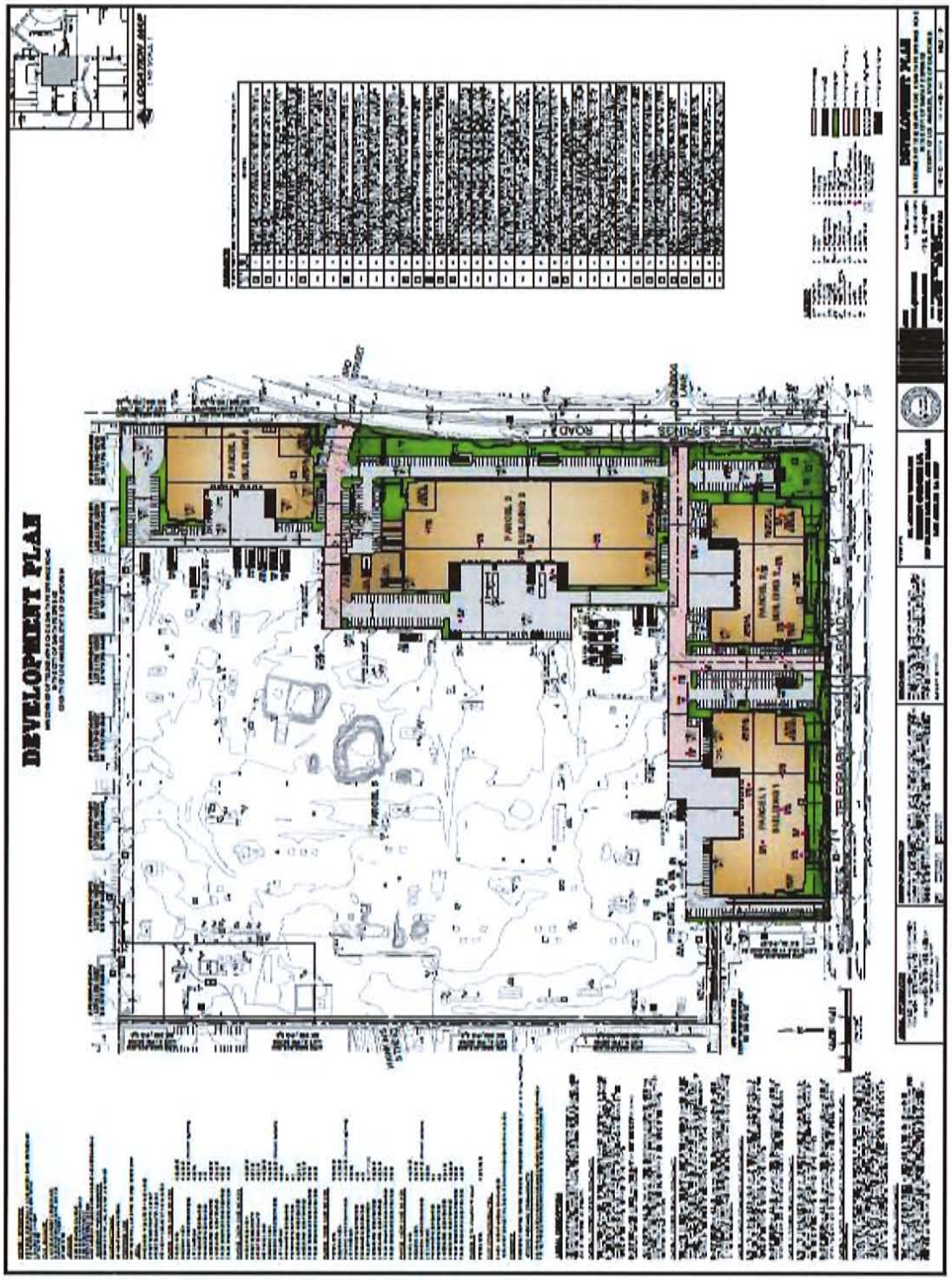


Breitburn Operating L.P.
NW Corner of Telegraph Road & Santa Fe Springs Road

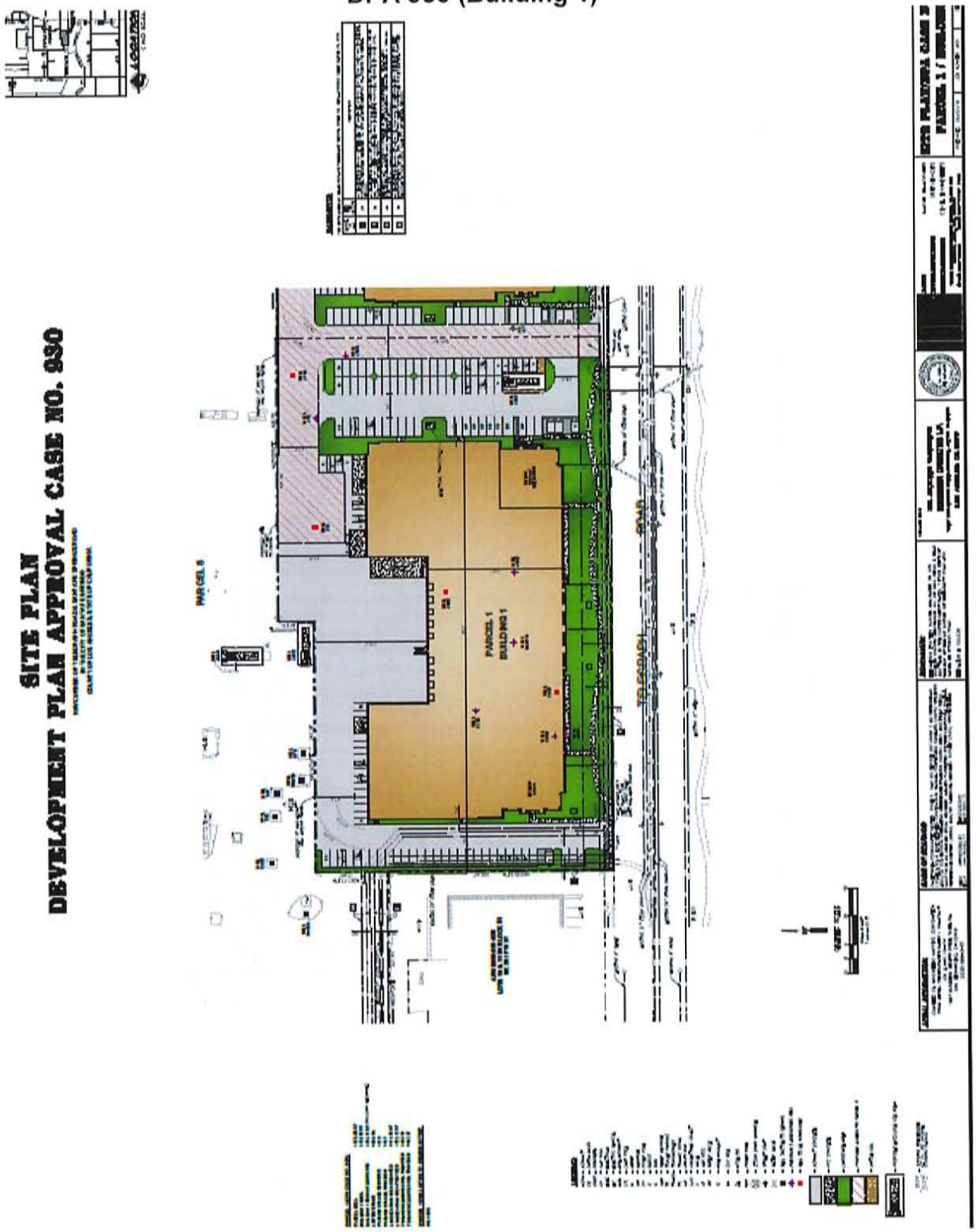
Attachment 2 – Tentative Parcel Map



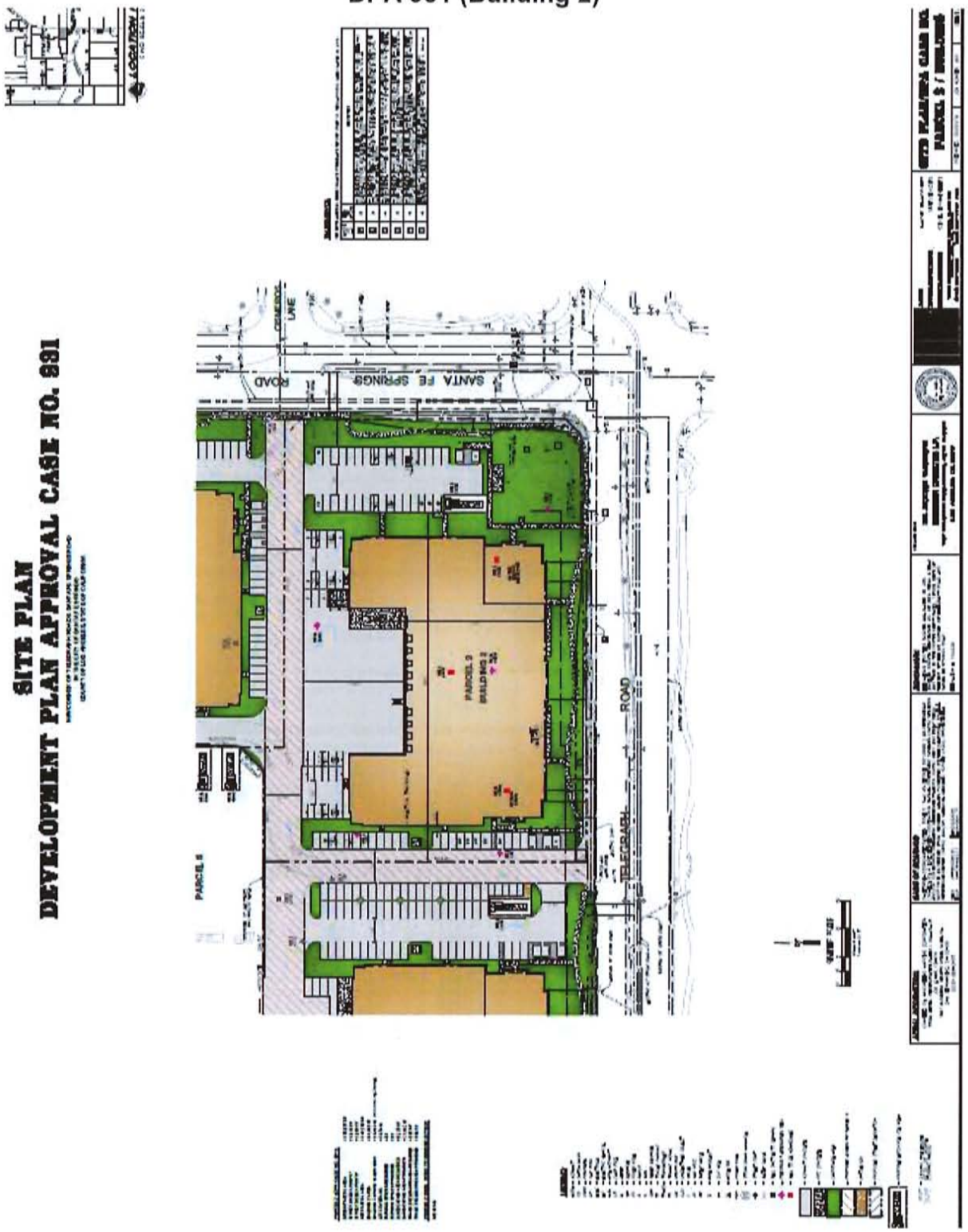
Attachment 3 – Site Plans
Overall Site Plan



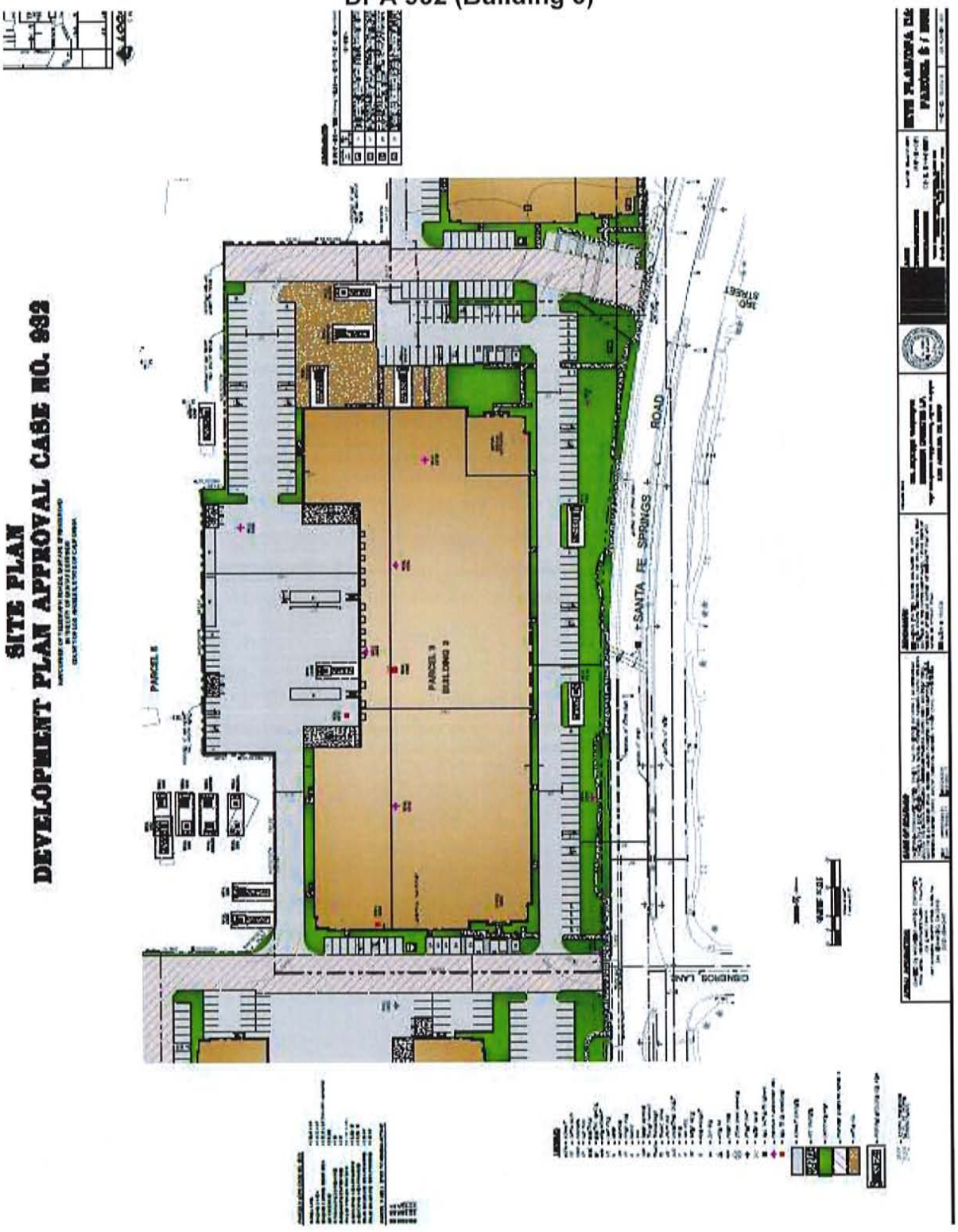
Attachment 3 – Site Plans
DPA 930 (Building 1)



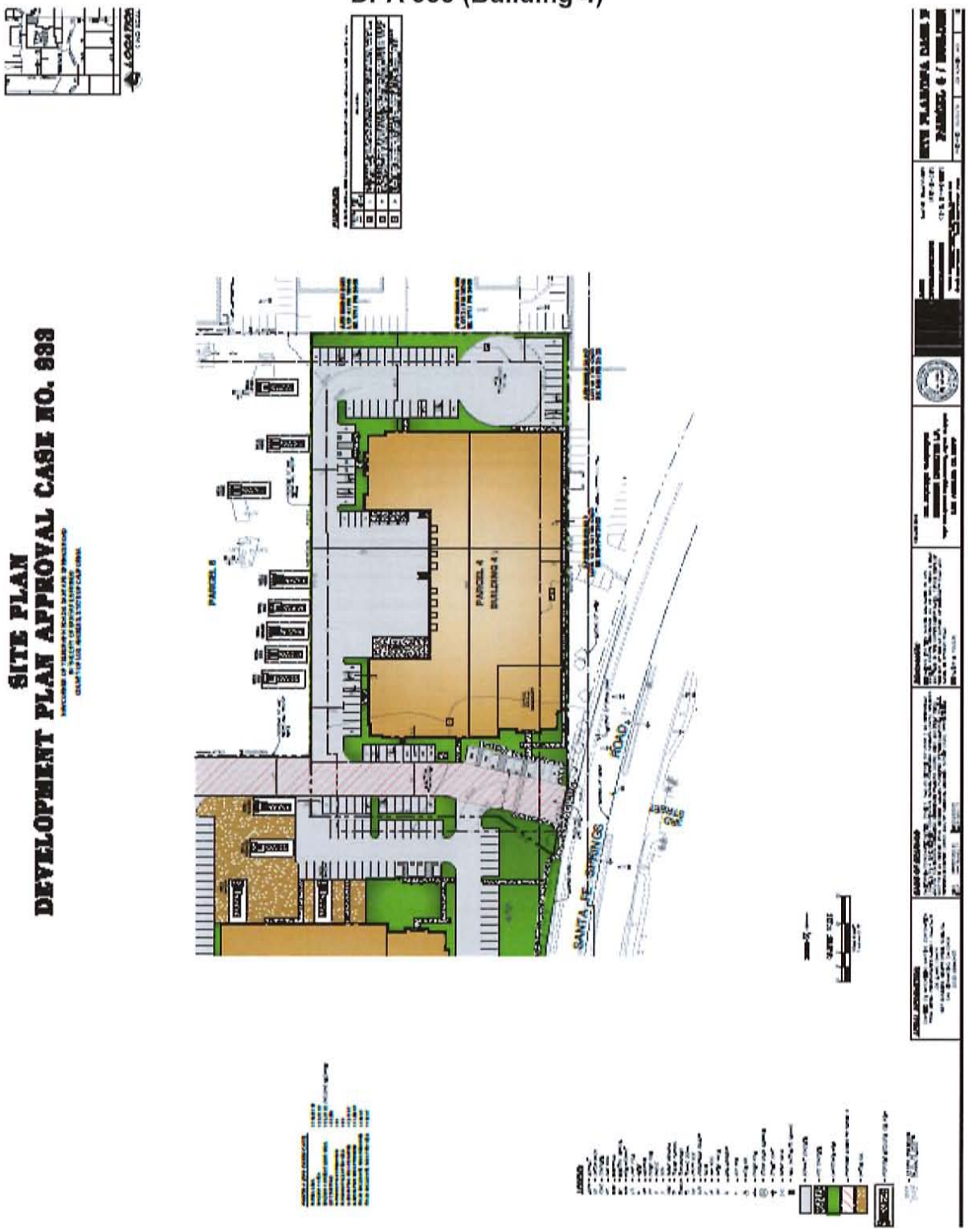
Attachment 3 – Site Plans
DPA 931 (Building 2)



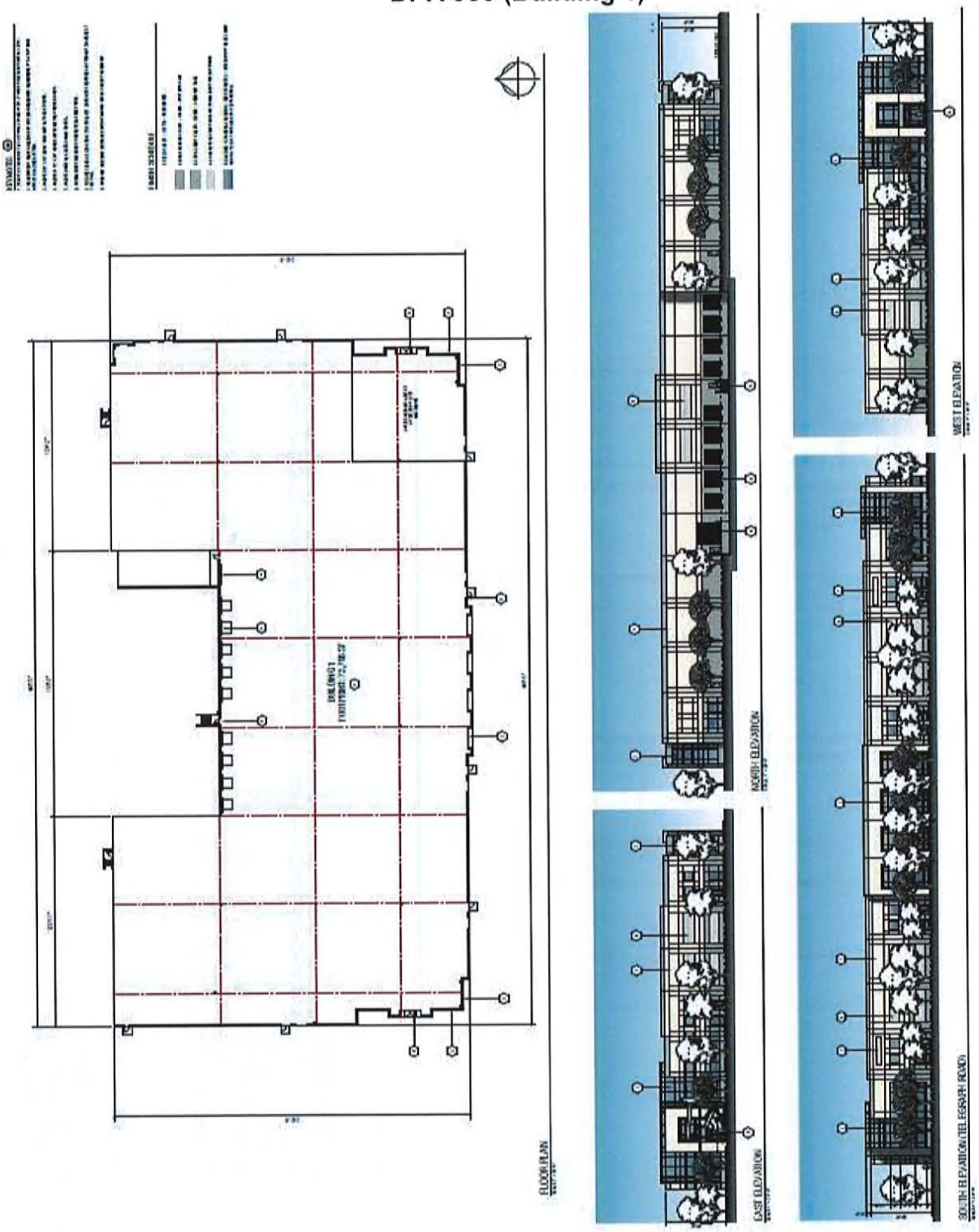
Attachment 3 – Site Plans
DPA 932 (Building 3)



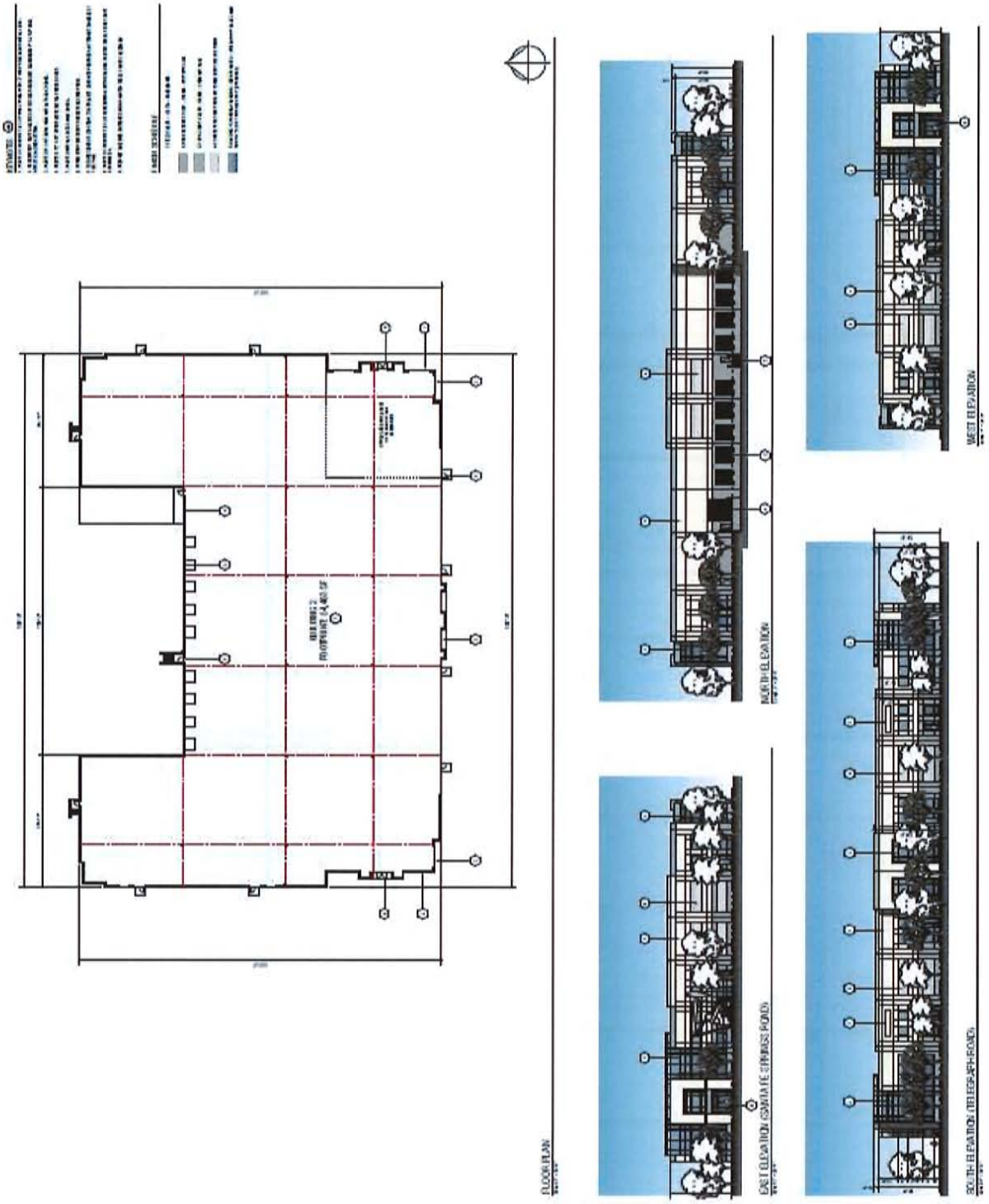
Attachment 3 – Site Plans
DPA 933 (Building 4)



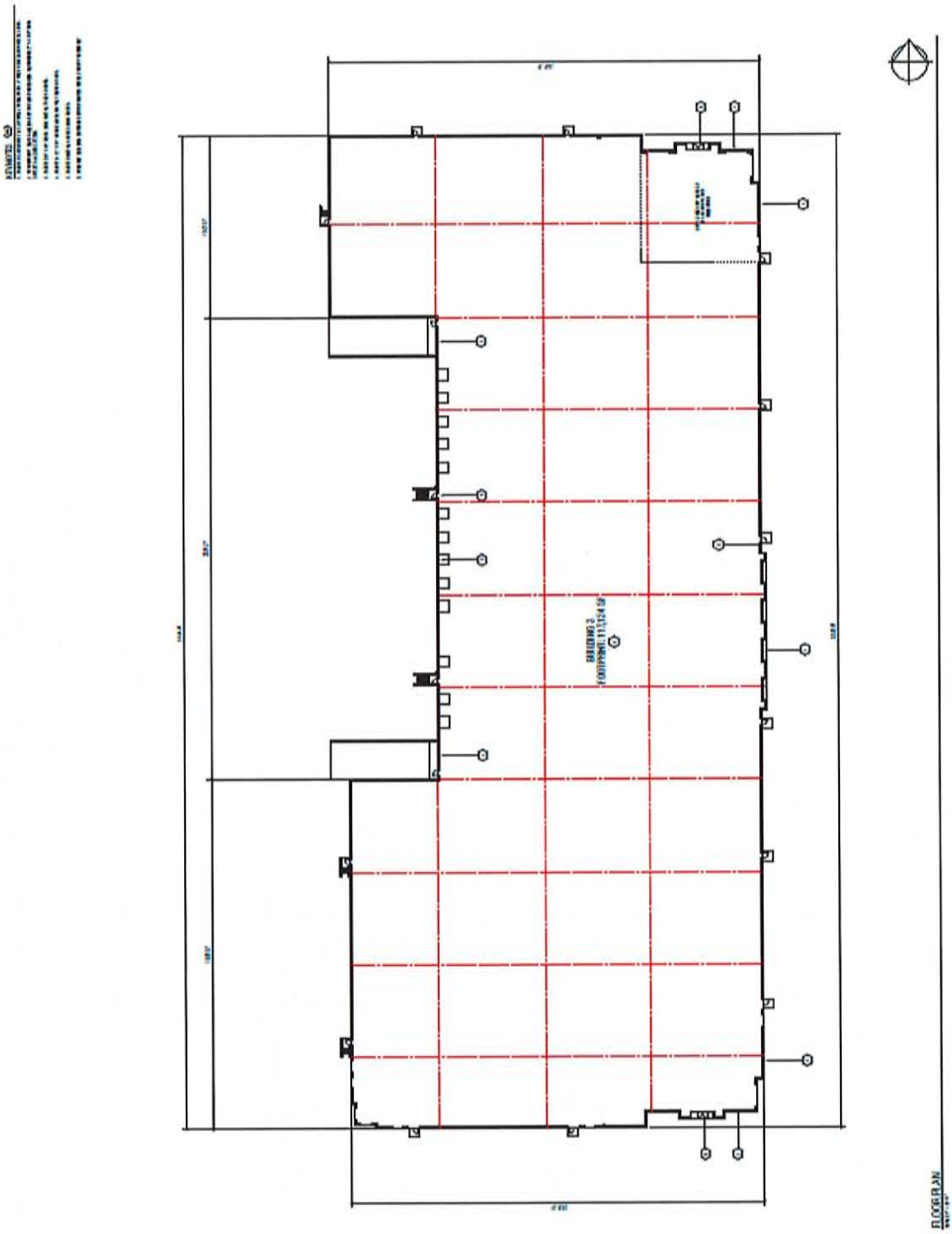
Attachment 4 – Floor Plan & Elevations
DPA 930 (Building 1)



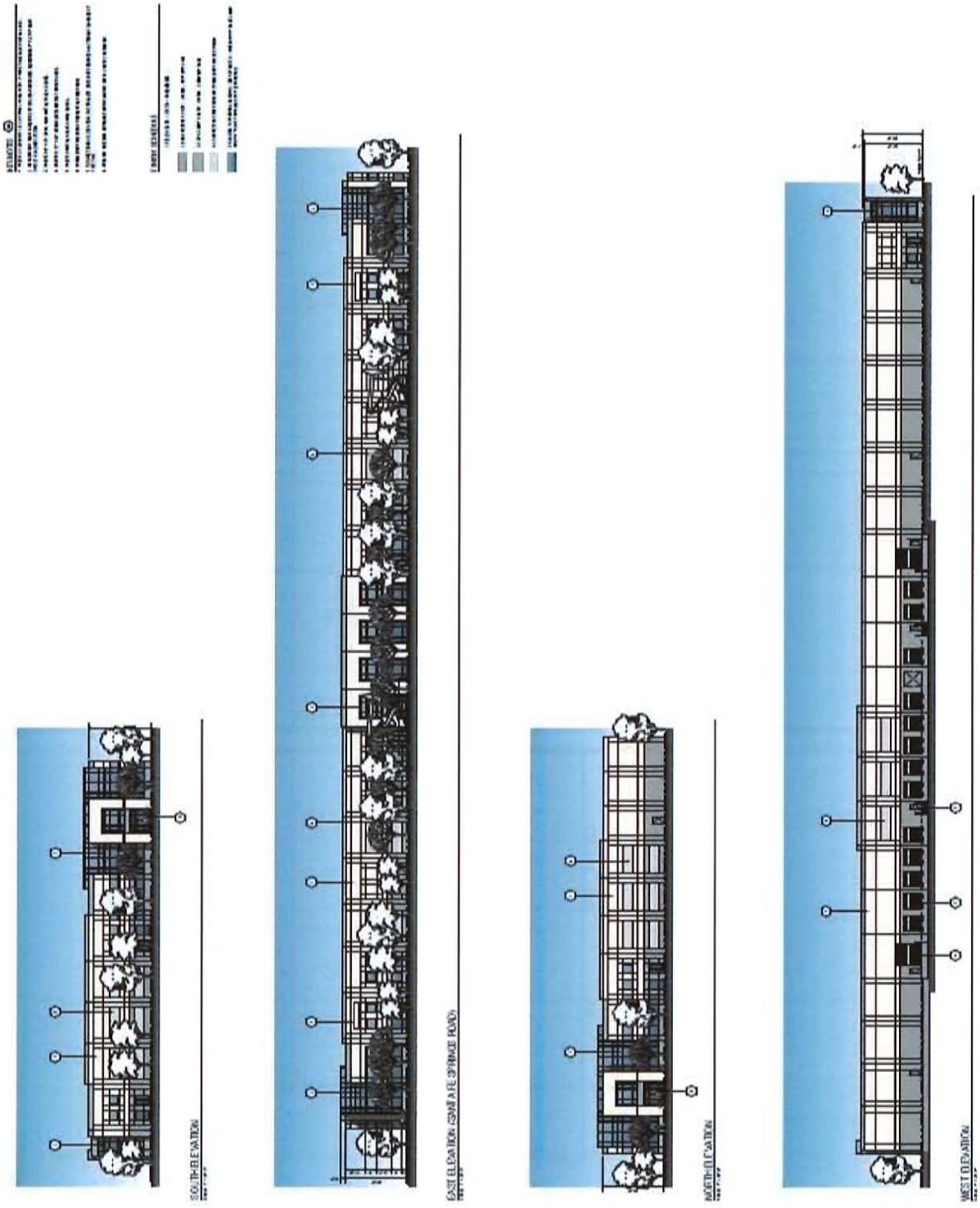
Attachment 4 – Floor Plan & Elevations
DPA 931 (Building 2)



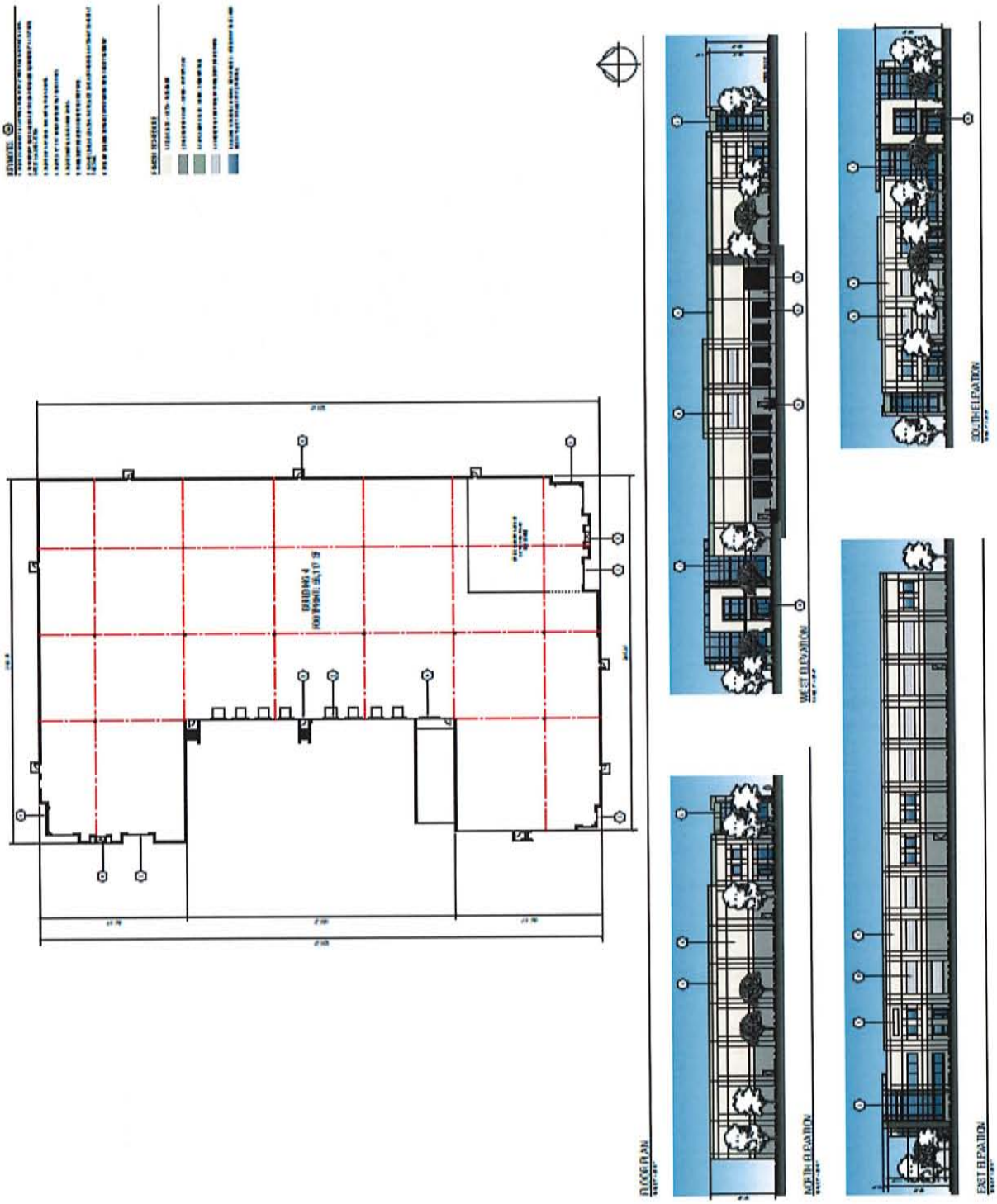
Attachment 4 – Floor Plan & Elevations
DPA 932 (Building 3)



Attachment 4 – Floor Plan & Elevations
DPA 932 (Building 3)



Attachment 4 – Floor Plan & Elevations
DPA 933 (Building 4)



Attachment 5 – Colored Rendering



Attachment 6 –Tentative Parcel Map Application

City of Santa Fe Springs

SUBDIVISION/TRACT/PARCEL MAP APPLICATION AND OWNER'S STATEMENT

All applications, plans, maps, exhibits, and other documents must be accurate and complete for submission to the Planning and Development Department. Instructions for filing the Subdivision application are attached to this application, which contain general information, definitions, public hearing requirements, processing procedures and required fees. In addition, further supporting documents may be required upon the discretion of the Planning and Development Department. If the application is determined to be incomplete, the Planning and Development Department will notify the applicant via mail detailing the required document(s). Submission of an incomplete application will impede and prolong the application process.

PROPERTY LOCATION:

Address: 10025 Bloomfield Avenue
10025 Santa Fe Springs Road
12405 Telegraph Road
Santa Fe Springs, CA 90670

Located at the Northwest corner of Telegraph Road and Telegraph Road

Assessor's Parcel Number: 8005-015-011, -013, -023, -024, -025, -026, AND -027

PURPOSE OF PARCEL (SUBDIVISION) MAP & LEGAL DESCRIPTION:

SEE ATTACHED.

PROJECT AND LAND USE DATA:

Existing Land Use: Oil Operations

Zoning Classification: M-2 HEAVY MANUFACTURING

Intended Land Uses of Lots within the Subdivision:
MANUFACTURING/INDUSTRIAL/OFFICE USE AND EXISTING OIL OPERATIONS

General Plan Land Use Classification: MANUFACTURING

Surrounding Land Uses:

North: MANUFACTURING
South: RESIDENTIAL
East: MANUFACTURING
West: MANUFACTURING

Existing No. of Lots: 7 APNs CONSISTING OF 21 LOTS

Proposed No. of Lots: 5

Page 1

Attachment 6 –Tentative Parcel Map Application

Lot Area-per Parcel (S.F./Acres): SEE ATTACHED.

Building (footprint) Area-per Parcel: SEE ATTACHED.

Are dedications or public improvements required? NONE AT THIS TIME

PROJECT FINDING:

After submittal of the completed application, Planning and Development staff will review all documents prior to scheduling a public hearing at the earliest agenda before the Planning Commission of the City of Santa Fe Springs. The application will be evaluated based on the proposed (parcel map) subdivision, public testimony at the hearing, and the finding listed below (Subdivision Map Act, Section 66474). Please provide support for the required findings below and additional comments. Please

PROJECT FINDING	YES	NO	COMMENTS
Is the proposed map consistent with applicable general and specific plans?	X		
Is the design or improvement of the proposed subdivision consistent with applicable general or specific plans?	X		
Is the site physically suitable for the proposed density of development?	X		
Is the design of the subdivision or the proposed improvements likely to cause substantial environmental damage of likely to injure fish or wildlife or their habitat?		X	
Is the design of the subdivision or the type of improvements likely to cause serious public health problems?		X	
Will the design of the subdivision or the type of improvements conflict with easements, acquired by the public at large, for access through or use of the property within the proposed subdivision?		X	

UTILITIES:

Grading: Is any grading of lots contemplated? YES (If yes, show details on the tentative map.)

Water: What provisions are being made to provide an adequate water system?
WATER IS CURRENTLY SERVING THE SITE. A WATER SYSTEM FOR THE PROPOSED DEVELOPMENT WILL BE DESIGNED.

Sewers: What provisions are being made to provide an adequate sewer system?
SEWER IS CURRENTLY SERVING THE SITE. A SEWER SYSTEM FOR THE PROPOSED DEVELOPMENT WILL BE DESIGNED.

Gas and Electricity: Are the appropriate utility companies being contacted to ensure service to the subject property?
GAS AND ELECTRICITY IS CURRENTLY SERVING THE SITE. A GAS AND ELECTRICITY SYSTEM FOR THE PROPOSED DEVELOPMENT WILL BE DESIGNED.

Streets: Will each resulting parcel or lot front on a dedicated and improved street? YES

Have you discussed street improvement requirements with the Department of Public Works? YES

Deed Restrictions: State nature of deed restrictions, existing and proposed: NONE

Page 2

Attachment 6 –Tentative Parcel Map Application

RESPONSIBLE PARTIES:

Gas Agency:	SOUTHERN CALIFORNIA GAS COMPANY	**Water Agency:**	CITY OF SANTA FE SPRINGS
Address:	SEE ATTACHED	Address:	SEE ATTACHED
E-Mail:		E-mail:	
Contact Person:		Contact Person:	
Phone Number:	800-427-2200	Phone Number:	562-868-0511 X7333
Sewer Agency:	SEE ATTACHED	**Electric Agency:**	SOUTHERN CALIFORNIA EDISON
Address:		Address:	SEE ATTACHED
E-Mail:		E-Mail:	
Contact Person:		Contact Person:	
Phone Number:		Phone Number:	800-655-4555

THE APPLICATION IS BEING FILED BY:

X Record Owner of the Property

____ Authorized Agent of the Owner (Written authorization must be attached to application.)

STATUS OF AUTHORIZED AGENT (Engineer, Attorney, Purchaser, Developer, Lessee, etc.): ____

I HEREBY CERTIFY THAT the facts, statements and information furnished above are true and correct to the best of my knowledge and belief.

SIGNED: Wallace Washburn

(If signed by other than the Record Owner, written authorization must be attached to this application.)

OWNER AGENT

Name:
Contact:
Address:
City:
State:
Zip Code:
Phone:
E-Mail:

RECORD OWNER

Name: Breitburn Operating L.P.
Contact: W. Jackson Washburn
Address: 707 Wilshire Blvd., 46th Floor
City: Los Angeles
State: California
Zip Code: 90017
Phone: 213-225-5900
E-Mail: jwashburn@breitburn.com

ENGINEER LICENSE SURVEY

Name:
Contact:
Address:
City:
State:
Zip Code:
Phone:
E-Mail:

FOR DEPARTMENTAL USE ONLY	
TRACT/PARCEL MAP NO.:	78232
DATE FILED:	11/1/2017
FILING FEE:	
RECEIPT NO.:	
APPLICATION COMPLETE?	

Page 3

Attachment 6 –Tentative Parcel Map Application

A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)

On October 19, 2017, before me, Eureka Nutt, Notary Public, personally appeared Willis Jackson Washburn, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

EUREKA NUTT
Notary Public - California
Los Angeles County
Commission # 2202103
My Comm. Expires Jul 17, 2021

Signature Eureka Nutt (seal)

Attachment 6 –Tentative Parcel Map Application

Legal Description:

LEGAL DESCRIPTION

Real property in the City of Santa Fe Springs, County of Los Angeles, State of California, described as follows:

PARCEL 1: (PORTION OF APN: 8005-015-011)

THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 6, IN TOWNSHIP 3 SOUTH, RANGE 11 WEST, SAN BERNARDINO MERIDIAN, RANCHO SANTA GERTRUDES, IN THE CITY OF SANTA FE SPRINGS, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP MADE BY HOFFMAN BROS., OF A PORTION OF SAID RANCHO, RECORDED IN BOOK 1 PAGE 502 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EXCEPT THE NORTH 30 FEET, AND THE EAST 30 FEET THEREOF FOR ROADS, RAILROADS, DITCHES AND WATER COURSES.

ALSO EXCEPTING ALL OIL, GAS AND OTHER HYDROCARBON SUBSTANCES WHICH MAY EXIST BELOW 8500 FEET (VERTICAL DEPTH) FROM THE SURFACE OF SAID LAND, AS CONVEYED BY DEEDS RECORDED AUGUST 3, 1945 IN BOOK 22190 PAGE 223, AND IN BOOK 21999 PAGE 411 OF OFFICIAL RECORDS IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 2: (PORTION OF APN: 8005-015-011)

THE NORTH 30 FEET AND THE EAST 30 FEET OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 6, TOWNSHIP 3 SOUTH, RANGE 11 WEST, IN THE RANCHO SANTA GERTRUDES, IN THE CITY OF SANTA FE SPRINGS, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS SHOWN ON A MAP MADE BY HOFFMAN BROS. OF A PORTION OF SAID RANCHO, RECORDED IN BOOK 1 PAGE 502 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EXCEPT THEREFROM ALL OIL, GAS AND OTHER HYDROCARBON SUBSTANCES WHICH MAY EXIST BELOW 8500 FEET (VERTICAL DEPTH) FROM THE SURFACE OF SAID LAND, AS CONVEYED BY DEEDS FROM ALPHONZO E. BELL CORPORATION, RECORDED AUGUST 3, 1945 IN BOOK 22190 PAGE 223 OF OFFICIAL RECORDS AND IN BOOK 21999 PAGE 411 OF OFFICIAL RECORDS.

PARCEL 3: (APN'S 8005-015-023 AND 8005-015-024)

LOTS 1 TO 11 INCLUSIVE IN BLOCK 80 OF THE TOWNSITE OF SANTA FE SPRINGS, IN THE CITY OF SANTA FE SPRINGS, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 26 PAGE 37 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EXCEPT THEREFROM ALL OIL, GAS AND OTHER HYDROCARBONS BELOW A DEPTH OF 8500 FEET FROM THE SURFACE, AS CONVEYED IN THE DEEDS RECORDED IN BOOK 22190 PAGE 223 AND IN BOOK 21999 PAGE 411, BOTH OF OFFICIAL RECORDS.

PARCEL 4: (PORTION OF APN: 8005-015-027)

LOTS 1 TO 9 INCLUSIVE IN BLOCK 81 OF THE TOWNSITE OF SANTA FE SPRINGS, IN THE CITY OF SANTA FE SPRINGS, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED RECORDED 26 PAGE 37 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

Attachment 6 –Tentative Parcel Map Application

Attachment to Subdivision/Tract/Parcel Map Application

PURPOSE OF PARCEL (SUBDIVISION) MAP & LEGAL DESCRIPTION:

Purpose of Parcel (Subdivision) Map:

Overall site consists of 44.67 acres of existing oilfield operations. The purpose of this subdivision is to divide the site into 5 parcels, with 4 being developed (approximately 18 acres) into industrial/commercial/office buildings, 1 building per parcel.

Lot Area per Parcel (S.F./Acres):

Parcel 1 area = 186,493 sf / 4.28 Acres

Parcel 2 area = 153,827 sf / 3.53 Acres

Parcel 3 area = 308,890 sf / 7.09 Acres

Parcel 4 area = 130,371 sf / 2.99 Acres

Parcel 5 area = 1,166,139 sf / 26.77 Acres

Building (footprint) Area per Parcel:

BUILDING AREA DATA			
	Building Area	Mezzanine	TOTAL
Parcel	Sq. Feet	Sq. Feet	Sq. Feet
1	74,417	4,000	78,417
2	54,463	4,000	58,463
3	117,124	4,000	121,124
4	56,117	4,000	60,117
5	-	-	-
TOTALS	**302,121**	**16,000**	**318,121**

Attachment 6 –Tentative Parcel Map Application

EXCEPT THEREFROM ALL OIL, GAS AND OTHER HYDROCARBONS BELOW A DEPTH OF 8500 FEET FROM THE SURFACE, AS CONVEYED IN THE DEEDS RECORDED IN BOOK 22190 PAGE 223 AND IN BOOK 21999 PAGE 411, BOTH OF OFFICIAL RECORDS.

PARCEL 5: (APN: 8005-015-013 AND A PORTION OF APN'S: 8005-015-025, 8005-015-026 AND 8005-015-027)

THAT PORTION OF FIRST STREET, 50 FEET WIDE, IN THE CITY OF SANTA FE SPRINGS, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS SHOWN ON MAP FILED IN BOOK 36 PAGE 28 OF RECORD OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING BETWEEN THE NORTHERLY PROLONGATION OF THE EASTERLY LINE OF LOT 1 IN BLOCK 80 OF TOWNSITE OF SANTA FE SPRINGS AS SHOWN ON MAPS RECORDED IN BOOK 26 PAGE 37, ET SEQ., OF MISCELLANEOUS RECORDS OF SAID COUNTY, AND THE NORTHERLY PROLONGATION OF THE WESTERLY LINE OF LOT 9 IN BLOCK 81 OF SAID TOWNSITE OF SANTA FE SPRINGS.

PARCEL 6: (PORTION OF APN'S: 8005-015-025, 8005-015-026 AND 8005-015-027)

THAT PORTION OF FOREST STREET, 60 FEET WIDE, IN THE CITY OF SANTA FE SPRINGS, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS SHOWN ON MAP FILED IN BOOK 36 PAGE 28 OF RECORD OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING BETWEEN THE NORTHERLY LINE OF ANAHEIM TELEGRAPH ROAD, 80 FEET WIDE, AND THE SOUTHERLY LINE OF FIRST STREET, 50 FEET WIDE, AS SHOWN ON SAID MAP.

Responsible Parties:

Gas Agency:

Southern California Gas Company

555 W. 5th Street

Los Angeles, CA 90017

Water Agency:

City of Santa Fe Springs

11710 E. Telegraph Road

Santa Fe Springs, CA 90670

562-868-0511 x 7333

Attachment 6 –Tentative Parcel Map Application

Sewer Agency:

City of Santa Fe Springs

11710 E. Telegraph Road

Santa Fe Springs, CA 90670

562-868-0511 x 7333

Electric Agency:

Southern California Edison

501 S. Marengo Avenue

Alhambra, CA 91776

800-655-4555

Attachment 7 – Development Plan Approval Application

Received

NOV 01 2017

City of Santa Fe Springs **Planning Department**

Application for

DEVELOPMENT PLAN APPROVAL (DPA)

The undersigned hereby petition for Development Plan Approval:

LOCATION OF PROPERTY INVOLVED:
Provide street address or Assessors Parcel Map (APN) number(s) if no address is available. Additionally, provide distance from nearest street intersection:

10255 Bloomfield Avenue
10255 Santa Fe Springs Road
12405 Telegraph Road
Santa Fe Springs, CA 90670

APNs: 8005-015-011,-013,-023,-024,-025,-026 & -027
Located on the northwest corner of Telegraph Road and Santa Fe Springs Road.

RECORD OWNER OF THE PROPERTY:
Name: **Breitburn Operating L.P.** Phone No: **213-225-5900**
Mailing Address: **707 Wilshire Boulevard, 46th Floor**
Los Angeles, CA 90017
Fax No: **213-225-5916** E-mail: **jwashburn@breitburn.com**

THE APPLICATION IS BEING FILED BY:

☑ Record owner of the property

☐ Authorized agent of the owner (written authorization must be attached to application)

Status of Authorized Agent: Engineer/Architect: _____ Attorney: _____
Purchaser: _____ Lessee: _____
Other (describe): _____

DESCRIBE THE DEVELOPMENT PROPOSAL (See reverse side of this sheet for information as to required accompanying plot plans, floor plans, elevations, etc.)

See attached Project Description.

I HEREBY CERTIFY THAT the facts, statements and information furnished above are true and correct to the best of my knowledge and belief.

Breitburn Operating LP, By: Breitburn Operating GP LLC, its general partner

Signed: _____
Signature

Willis Jackson Washburn, Senior Vice President
Print name

(If signed by other than the record owner, written authorization must be attached to this application.)

NOTE

This application must be accompanied by the filing fee, map and other data specified in the form entitled "Checklist for Development Plan Approval."

Attachment 7 – Development Plan Approval Application

DPA Application
Page 2 of 2

PROPERTY OWNERS STATEMENT

We, the undersigned, state that we are the owners of all of the property involved in this petition (Attach a supplemental sheet if necessary):

Name (please print): Willis Jackson Washburn
Mailing Address: 707 Wilshire Boulevard, 46th Floor, Los Angeles CA 90017
Phone No: (213) 225-5900
Fax No: (213) 225-5916 E-mail: jwashburn@breitburn.com
Signature: Willis Jackson Wash

Name (please print): _____
Mailing Address: _____
Phone No: _____
Fax No: _____ E-mail: _____
Signature: _____

CERTIFICATION

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss.

I, WILLIS JACKSON WASHBURN, being duly sworn, depose and say that I am the petitioner in this application for a Development Plan Approval, and I hereby certify under penalty of law that the foregoing statements and all statements, maps, plans, drawings and other data made a part of this application are in all respects true and correct to the best of my knowledge and belief.

Breitburn Operating LP, By: Breitburn Operating GP LLC, its general partner

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

Signed: Willis Jackson Wash
(If signed by other than the Record Owner, written authorization must be attached to this application)

STATE OF CALIFORNIA)
)
COUNTY OF LOS ANGELES)

(seal)

On October 19, 2017, before me, Eureka Nutt, Notary Public
Personally appeared Willis Jackson Washburn
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument, the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

Eureka Nutt
Notary Public

EUREKA NUTT
Notary Public - California
Los Angeles County
Commission # 2202103
My Comm. Expires Jul 17, 2021

FOR DEPARTMENT USE ONLY
CASE NO: 930
DATE FILED: 10/17/17
FILING FEE: _____
RECEIPT NO: _____
APPLICATION COMPLETE? _____

Attachment 7 – Development Plan Approval Application

Received
NOV 01 2017
Planning Department

Attachment to Development Plan Approval (DPA)

Address of the Project:

10025 Bloomfield Avenue

10025 Santa Fe Springs Road

12405 Telegraph Road

Santa Fe Springs, CA 90670

APNs: 8005-015-011, -013, -023, -024, -025, -026, and -027

Located on the northwest corner of Telegraph Road and Santa Fe Springs Road.

Project Description:

The proposed project is designed to repurpose a portion of the existing 44.67 acre oilfield **("Oilfield Site")** located on the northwest corner of Telegraph Road and Santa Fe Springs Road. An approximate 18 acre area situated on the southern portion (fronting Telegraph Road) and the eastern portion (fronting Santa Fe Springs Road) of the **Oilfield Site** is the proposed location of this project **("Project Site")**.

The proposed project involves the construction of a high image creative and distinctive warehouse/office business park that includes four new Class A buildings on the **Project Site**. This will provide the opportunity to significantly improve the aesthetics along the Telegraph Corridor and also a key intersection in the city. The buildings will include many enhanced features (including glass features, high image office corners, facade and parapet movements through-out the elevations) that will tie into the overall landscaping plan. The landscaping design will include the use of substantial high quality trees, plants, shrubs and meandering sidewalks and will continue the Urban Forest theme currently occurring along Telegraph Road. The buildings along Telegraph Road will have flexible design features designed in the walls to allow for future larger openings for patios, eating areas and trellises. The buildings have been designed with multiple entries to allow future flexibility with size of spaces. This project will also provide additional quality jobs in the community and will provide an opportunity to increase the tax base in the City of Santa Fe Springs.

The proposed project will require the approval of a Tentative Parcel and a Final Parcel Map. The Parcel Map will divide the **Oilfield Site** into 5 parcels and also separate the **Project Site** from the remaining **Oilfield Site**. The Parcel Map will also subdivide the **Project Site** into four individual parcels and is designed so each building will be situated on its own individual parcel.

Attachment 7 – Development Plan Approval Application

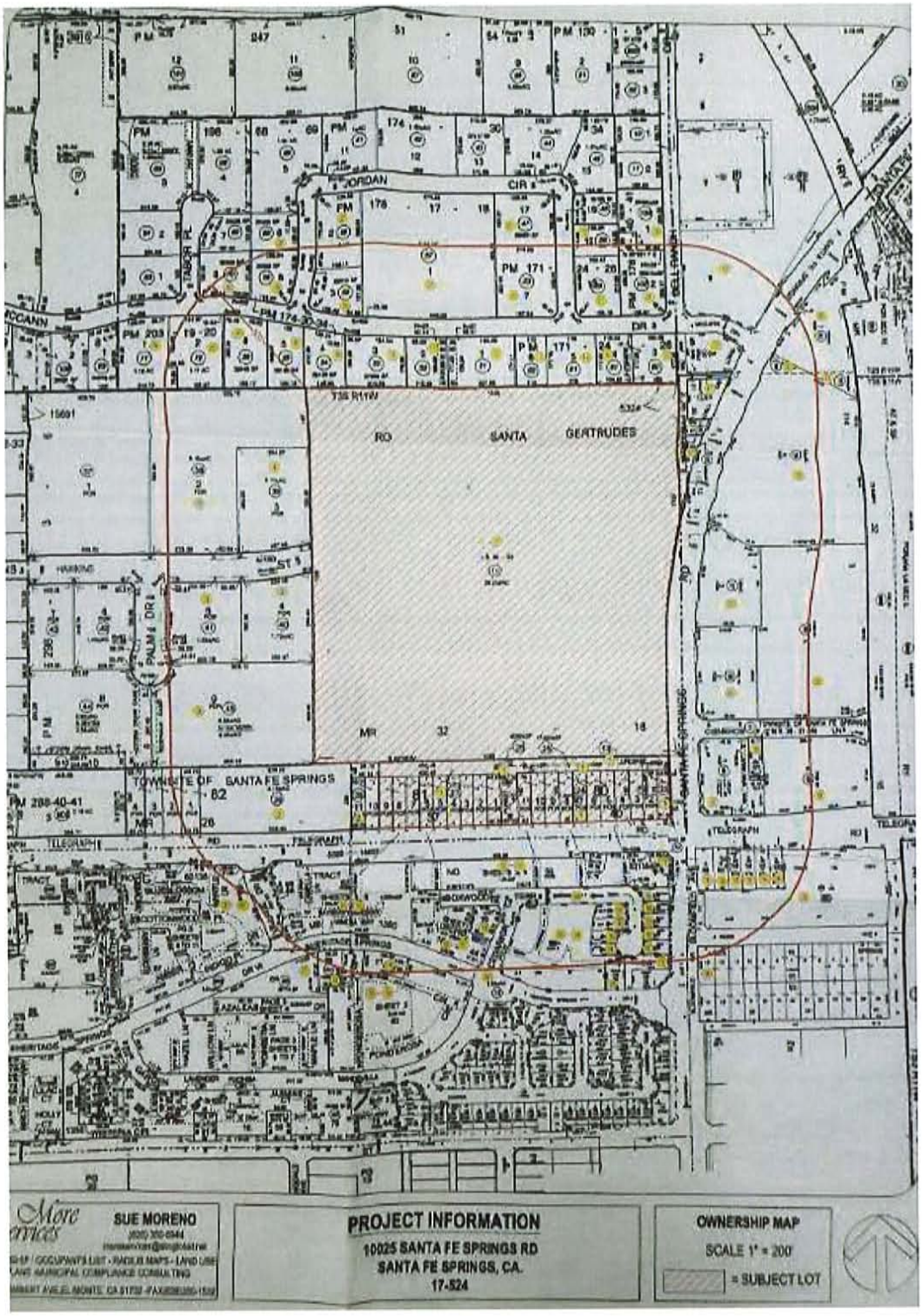
The proposed project will consist of the following:

PROJECT DATA					
	Site Area		Building Area	Mezzanine	TOTAL
Bldg.	Sq. Feet	Acres	Sq. Feet	Sq. Feet	Sq. Feet
1	186,493	4.28	74,417	4,000	78,417
2	153,827	3.53	54,463	4,000	58,463
3	308,890	7.09	117,124	4,000	121,124
4	130,371	2.99	56,117	4,000	60,117
TOTALS	**779,581**	**17.90**	**302,121**	**16,000**	**318,121**

The proposed project includes the retention of 9 producing oil and gas wells and water injection wells and also the oil field infrastructure associated with these wells and the Santa Fe Springs Oilfield

Prior to any land development, extensive oilfield work including well abandonment, well re-abandonment, oilfield infrastructure removal and relocation will be performed. The Project Site has been environmentally assessed and will be evaluated and closed by an oversight environmental agency.

Attachment 8 – Radius Map for Public Hearing Notice



Report Submitted By: Laurel Reimer
Planning and Development Department

Date of Report: September 4, 2018

Attachment 9 – Public Hearing Notice

City of Santa Fe Springs
11710 Telegraph Road
Santa Fe Springs, CA 90670

NEOPOST FIRST-CLASS MAIL
06/27/2018
US POSTAGE $000.00[9]
ZIP 90670
041L11257783

FILE COPY

(NOTICE OF PUBLIC HEARING)

CARRIER: IF ADDRESSEE HAS MOVED,
PLEASE LEAVE WITH CURRENT OCCUPANT

CITY OF SANTA FE SPRINGS
NOTICE OF PUBLIC HEARING
TO PROPERTY OWNERS WITHIN 500 FEET

NOTICE IS HEREBY GIVEN that the **Santa Fe Springs Planning Commission** will conduct a public hearing at a regular meeting on **Monday, July 9, 2018** at 6:00 p.m. in the Council Chambers of City Hall located at 11710 Telegraph Road on the following matter:

Applicant: Breitburn Operating L.P.
Property located at: NW Corner of Telegraph Road and Santa Fe Springs Road (APNs: 8005-015-011, 8005-015-013, 8005-015-023, 8005-015-024, 8005-015-025, 8005-015-026, and 8005-015-027) within the M-2, Heavy Manufacturing Zone and Telegraph Road Corridor.

Tentative Parcel Map No. 78232: A request to subdivide a seven-parcel, 44.67-acre site into five parcels measuring approximately 4.28 acres, 3.53 acres, 6.85 acres, 3.23 acres, and 26.77 acres.
Development Plan Approval Case Nos. 930-933: A request to develop a 44.67-acre site with: *DPA 930*: a 78,417 sq. ft. building on a 4.28-acre parcel; *DPA 931*: a 58,463 sq. ft. building on a 3.53-acre parcel; *DPA 932*: a 121,124 sq. ft. building on a 6.85-acre parcel; *DPA 933*: a 60,117 sq. ft. building on a 3.23-acre parcel. The remaining 26.77-acre parcel will be reserved for oil extraction operations.

CEQA Status: Staff determined that additional environmental analysis is required to meet the requirements of the California Environmental Quality Act (CEQA). The City proposes to adopt an Initial Study/Mitigated Negative Declaration (IS/MND) for this project. The project site is not listed on the Hazardous Waste and Substance Site List as set forth in Government Code Section 65962.5.

All interested persons are invited to attend the above Public Hearing. If you challenge the above mentioned item and related actions in court, you may be limited to raising only those issues you or someone else raised at the Public Hearing described in this notice, or in written correspondence delivered to the City of Santa Fe Springs Department of Planning & Development at, or prior to the Public Hearing. Any person interested in this matter may contact Laurel Reimer at 562-868-0511, Ext. 7354 or laurelreimer@santafesprings.org.

Attachment 10 – Mitigation Monitoring and Reporting Program

MITIGATION MONITORING AND REPORTING PROGRAM
TELEGRAPH ROAD AND SANTA FE SPRINGS ROAD INDUSTRIAL PARK • 10255 BLOOMFIELD AVENUE, 10255 SANTA FE SPRINGS ROAD, AND 12405 TELEGRAPH ROAD • CITY OF SANTA FE SPRINGS

MITIGATION MONITORING AND REPORTING PROGRAM

TELEGRAPH ROAD AND SANTA FE SPRINGS ROAD INDUSTRIAL PARK
10255 BLOOMFIELD AVE., 10255 SANTA FE SPRINGS RD., & 12405 TELEGRAPH RD.
SANTA FE SPRINGS, CALIFORNIA



LEAD AGENCY:

CITY OF SANTA FE SPRINGS
PLANNING AND DEVELOPMENT DEPARTMENT
11710 TELEGRAPH ROAD
SANTA FE SPRINGS, CALIFORNIA 90670

REPORT PREPARED BY:

BLODGETT BAYLOSIS ENVIRONMENTAL PLANNING
2211 S. HACIENDA BOULEVARD, SUITE 107
HACIENDA HEIGHTS, CALIFORNIA 91745

JULY 19, 2018
SSSP 031

Report Submitted By: Laurel Reimer
Planning and Development Department

Date of Report: September 4, 2018

Attachment 10 – Mitigation Monitoring and Reporting Program

MITIGATION MONITORING AND REPORTING PROGRAM
TELEGRAPH ROAD AND SANTA FE SPRINGS ROAD INDUSTRIAL PARK • 10255 BLOOMFIELD AVENUE, 10255 SANTA FE SPRINGS ROAD, AND 12405 TELEGRAPH ROAD • CITY OF SANTA FE SPRINGS

TABLE OF CONTENTS

Section		Page
1.	Overview of the Project	3
2.	Findings of the Environmental Assessment	3
3.	Findings Related to Mitigation Monitoring	4
4.	Mitigation Measures	4
5.	Mitigation Monitoring	5

Attachment 10 – Mitigation Monitoring and Reporting Program

1. OVERVIEW OF THE PROJECT

The City of Santa Fe Springs, in its capacity as the Lead Agency, is considering an application that will permit the subdivision of a 779,581 square-foot (17.90-acre) portion of a larger 44.67-acre site located at the northwest corner of Telegraph Road and Santa Fe Springs Road. The 44.67-acre project site will be subdivided into five new parcels. The four new buildings will occupy a 17.90-acre portion (Parcels 1 through 4). *Parcel 5* will have a total land area of 26.77 acres and will include the existing oil extraction operations. *Parcel 1* will have a total land area of 186,493 square feet (4.28 acres) and will be occupied by a 78,417 square -foot warehouse. *Parcel 2* will consist of 148,259 square feet (3.40 acres) and will be occupied by a 58,463 square-foot warehouse. *Parcel 3* will total 298,474 square feet (6.85 acres) and will be occupied by a 121,124 square-foot warehouse. *Parcel 4* will have a total land area of 140,791 square feet (3.23 acres) and will be occupied by a 60,117 square-foot warehouse. The new development for parcels 1 through 4 will also include oil extraction operations, these operations will be modernized with new equipment.

A total of 491 parking spaces will be provided. Public access to the project site will be made possible by two driveways located along the west side of Santa Fe Springs Road and a third driveway located on north side of Telegraph Road. A fourth drive located on the north side of Telegraph Road will be reserved for emergency access only. In addition, 100,686 square feet of new landscaping will be provided. The project Applicant is Jackson Washburn, Breitburn Operating L.P., 707 Wilshire Boulevard, 46th Floor, Los Angeles, California 90017. Discretionary approvals required as part of the proposed project's implementation include the following:

- *Development Plan Approval (DPA 930, 931, 932, and 933)* to construct four industrial buildings on land currently used as an oil field. Nine wells will remain active and several wells will be abandoned or re-abandoned;
- *Tentative Parcel Map (TPM 78232)* to create five parcels. Four parcels will be developed with industrial buildings and one parcel will continue to be used as an oil field; and,
- Approval of the Mitigated Negative Declaration (MND) and Mitigation Monitoring and Reporting Program (MMRP).

2. FINDINGS OF THE ENVIRONMENTAL ASSESSMENT

The attached Initial Study prepared for the proposed project indicated that the proposed project will not result in significant environmental impacts upon implementation of the required mitigation measures. The following Mandatory Findings of Significance can be made as set forth in Section 15065 of the CEQA Guidelines, as amended, based on the results of this environmental assessment:

- The proposed project *will not* have the potential to degrade the quality of the environment.
- The proposed project *will not* have the potential to achieve short-term goals to the disadvantage of long-term environmental goals.
- The proposed project *will not* have impacts that are individually limited, but cumulatively considerable, when considering planned or proposed development in the immediate vicinity.

Attachment 10 – Mitigation Monitoring and Reporting Program

- The proposed project *will not* have environmental effects that will adversely affect humans, either directly or indirectly.

3. FINDINGS RELATED TO MITIGATION MONITORING

Section 21081(a) of the Public Resources Code states that findings must be adopted by the decision-makers coincidental to the approval of a Mitigated Negative Declaration. These findings shall be incorporated as part of the decision-maker's findings of fact, in response to AB-3180. In accordance with the requirements of Section 21081(a) and 21081.6 of the Public Resources Code, the following additional findings may be made:

- A mitigation reporting or monitoring program will be required;
- Site plans and/or building plans, submitted for approval by the responsible monitoring agency, shall include the required standard conditions; and,
- An accountable enforcement agency or monitoring agency shall be identified for the mitigations adopted as part of the decision-maker's final determination.

4. MITIGATION MEASURES

The following mitigation is required to minimize future light and glare impacts:

Mitigation Measure No. 1 (Aesthetics). The contractors must ensure that appropriate light shielding is provided for the lighting equipment in the parking area, buildings, and security as a means to limit glare and light trespass. An interior parking and street lighting plan and an exterior photometric plan indicating the location, size, and type of existing and proposed lighting shall also be prepared by the Applicant. The plan for the lighting must be submitted to the Planning Department, Police Services Department, and the Chief Building Official for review and approval prior to the issuance of any building permits.

Implementation of the following mitigation measures will reduce the proposed project's emission of greenhouse gases:

Mitigation Measure No. 2 (Greenhouse Gas Emissions). The future tenants must provide incentives to encourage employees to utilize alternative transportation such as reduced public transportation fares, employee carpooling and vanpooling services, and preferential parking for carpool vehicles. The proposed project will be required to conform to all pertinent Transportation Demand Management (TDM) requirements, if any.

The following measures will further ensure that on-site construction activities do not adversely impact noise sensitive land uses located nearby:

Mitigation Measure No. 3 (Noise). The contractors must ensure that the construction equipment includes working mufflers and other sound suppression equipment as a means to reduce machinery noise.

Mitigation Measure No. 4 (Noise). The contractors must notify residents in the area regarding construction times and local contact information. The notice shall include the name and phone number of the local contact person residents may call to complain about noise. This notice must also be placed along

Attachment 10 – Mitigation Monitoring and Reporting Program

the south and east sides of the project site. Upon receipt of a complaint, the contractor must respond immediately by reducing noise to meet Code requirements. In addition, copies of all complaints and subsequent communication between the affected residents and contractors must be forwarded to the City's Community Development Director.

5. MITIGATION MONITORING

The monitoring and reporting on the implementation of these measures, including the period for implementation, monitoring agency, and the monitoring action, are identified below in Table 1.

TABLE 1
MITIGATION MONITORING PROGRAM

Measure	Enforcement Agency	Monitoring Phase	Verification
Mitigation Measure No. 1 (Aesthetics). The contractors must ensure that appropriate light shielding is provided for the lighting equipment in the parking area, buildings, and security as a means to limit glare and light trespass. An interior parking and street lighting plan and an exterior photometric plan indicating the location, size, and type of existing and proposed lighting shall also be prepared by the Applicant. The plan for the lighting must be submitted to the Planning Department, Police Services Department, and the Chief Building Official for review and approval prior to the issuance of any building permits.	Planning Department, Police Services Department, and the Chief Building Official • *(Applicant is responsible for implementation)*	*Prior to the issuance of building permits.* • Mitigation ends when construction is completed.	Date: Name & Title:
Mitigation Measure No. 2 (Greenhouse Gas Emissions). The future tenants must provide incentives to encourage employees to utilize alternative transportation such as reduced public transportation fares, employee carpooling and vanpooling services, and preferential parking for carpool vehicles. The proposed project will be required to conform to all pertinent Transportation Demand Management (TDM) requirements, if any.	Planning Department • *(Applicant is responsible for implementation)*	*Prior to the issuance of a Business License.* • Mitigation to continue over the project's operational lifetime.	Date: Name & Title:
Mitigation Measure No. 3 (Noise). The contractors must ensure that the construction equipment includes working mufflers and other sound suppression equipment as a means to reduce machinery noise.	Planning Department and Code Enforcement • *(Applicant is responsible for implementation)*	*During project's construction.* • Mitigation ends when construction is completed.	Date: Name & Title:
Mitigation Measure No. 4 (Noise). The contractors must notify residents in the area regarding construction times and local contact information. The notice shall include the name and phone number of the local contact person residents may call to complain about noise. This notice must also be placed along the south and east sides of the project site. Upon receipt of a complaint, the contractor must respond immediately by reducing noise to meet Code requirements. In addition, copies of all complaints and subsequent communication between the affected residents and contractors must be forwarded to the City's Community Development Director.	Planning Department • *(Applicant is responsible for implementation)*	*Prior to the start of construction.* • Mitigation ends when construction is completed.	Date: Name & Title:

Attachment 11 – IS/MND Response to Comment Letter

BLODGETT BAYLOSIS ENVIRONMENTAL PLANNING
Planning • Environmental Analysis • Economics • Mapping • GIS

Date: July 5, 2018

To: City of Santa Fe Springs

From: Bryan Hamilton, Blodgett Baylosis Environmental Planning

Subject: Responses to SCAQMD Letter Dated June 15, 2018

Comment 1.

The South Coast Air Quality Management District (SCAQMD) staff appreciates the opportunity to comment on the above-mentioned document. The following comments are meant as guidance for the Lead Agency and should be incorporated into the Final MND.

SCAQMD Staff's Summary of Project Description

The Lead Agency proposes to build four warehouses totaling 318,121 square feet on 17.9 acres (Proposed Project). Based on a review of Exhibit 1, Aerial Photographs, and Exhibit 3, Sensitive Receptors Map, in the MND, SCAQMD staff found that existing residential uses are located in a close proximity to the Proposed Project across Telegraph Road. Construction is expected to take approximately 20 month.

Response 1.

This comment has been noted for the record.

Comment 2.

In the Air Quality Analysis Section, the Lead Agency quantified the Proposed Project's construction and operational emissions and compared them to SCAQMD's regional and localized air quality CEQA significance thresholds. The Lead Agency found that the Proposed Project's air quality impacts from construction would be less than significant. Additionally, the Lead Agency conducted a Human Health Risk Assessment (HHRA) to evaluate the potential health risks associated with soil contact. However, the Lead Agency did not conduct a mobile source health risk assessment for the Proposed Project. Since the Proposed Project would involve operation of four warehouses that are capable of generating or attracting vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the Lead Agency perform a mobile source health risk assessment to quantify and disclose potential health risk impacts from operation of the Proposed Project to nearby residents. Guidance for performing a mobile source health risk assessment is available at SCAQMD website.

2211 S. Hacienda Boulevard, Suite 107 • Hacienda Heights, California 91745
Phone 626-336-0033 • Cellular 562-556-4542 • E-Mail Blodgett.marc@gmail.com

Attachment 11 – IS/MND Response to Comment Letter

BLODGETT BAYLOSIS ENVIRONMENTAL PLANNING

Response 2.

An analysis of diesel particulate matter (DPM) generated by idling trucks was prepared for the proposed project. A discussion of DPM and truck idling was provided on Page 49 of the IS/MND. The use of certified clean idle trucks will lead to further reductions in DPM emissions. In addition, all trucks are currently prohibited from idling longer than five minutes pursuant to the California Code of Regulations. Computer molding was used to ascertain the project's DPM emissions. The modeling indicated that approximately 528 trucks travelling on-site will result in 0.22 pounds per day of DPM. Trucks idling on-site will generate 0.83 grams per hour of DPM, while trucks travelling to and from the site will result in 0.35 pounds per day of DPM. Trucks travelling along Telegraph Road will generate 0.09 pounds of DPM per day, while trucks travelling along Santa Fe Springs Road will generate 0.05 pounds per day of DPM. The table below summarizes the calculations cited above and in the IS/MND.

Emissions Source	Trucks/ Day[a]	VMT/ Day[a]	Emissions Rate (in gms) gms/mile	gms/idle hr	Daily Truck Emissio grams/day	(gms/hour[c]	Daily Truck Emissions lbs/day	(gms/hour[c]
Onsite Travel (Truck Travelling within Project Site	528	173	0.38		100		0.22	
Onsite Idling (Trucks Idling within the Project Site	528			0.717		379		0.83
Offsite Travel (Trucks Travelling to and from Project Site	528	528	0.305		161		0.35	
Offsite Travel (Receptor #1) Telegraph Rd. NO Receptor	211	127	0.305		39		0.09	
Offsite Travel (Receptor #2) SFS Road EO Receptor	185	76	0.305		23		0.05	
Offsite Travel (Receptor #3)	0	-	-		-		-	
Offsite Travel (Receptor #4)	0	-	0		-		-	

Notes:
[a] vehicle miles traveled
[b] VMTs are based on the travel distance next to sensitive receptor (1.180 ft [0.30 mi] for Telegraph Rd segment and 2,170 ft [0.41 mi] for SFS Rd segment).
Totals 1.03 mi/trip. Onsite VMT assumes 1,750 ft./truck.
[c] The emissions assume a numbers worst case of 15 minutes (SCAQMD restricts idling to 5 minutes).
[d] Emissions rates were derived using EMFAC 2014 emissions factors.

Comment 3.

SCAQMD staff recommends the use of truck trip rates from the Institute of Transportation Engineers (ITE) for high cube warehouse projects located in SCAQMD (i.e. 1.68 average daily vehicle trips per 1,000 square feet and 0.64 average daily truck trips per 1,000 square feet). Consistent with CEQA Guidelines, the CEQA document for the Proposed Project may use a non-default trip rate if there is substantial evidence indicating another rate is more appropriate for the air quality analysis.

For high cube warehouse projects, SCAQMD staff has been working on a Warehouse Truck Trip Study to better quantify trip rates associated with local warehouse and distribution projects, as truck emission represent more than 90 percent of air quality impacts from these projects. Details regarding this study can be found online here: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/high-cube-warehouse.

Response 3.

The traffic study was prepared prior to the adoption of the 10th edition ITE trip generation rates. The traffic study indicated that the proposed project will result in 1,134 daily trips, of which 234 trips will consist of truck trips. When taking into account the newer 10th edition generation rates, the project has the potential to result in

Attachment 11 – IS/MND Response to Comment Letter

534 trips per day, of which 203 will consist of truck trips. The 9th edition ITE rates provide the most conservative estimates.

Comment 4.

Should the Lead Agency find, after conducting a mobile source HRA analysis, that the Proposed Project would exceed SCAQMD CEQA significance threshold of 10 in one million for cancer risk, mitigation measures would be required (CEQA Guidelines Section 15126.4). The following mitigation measures and resources are intended to assist the Lead Agency with identifying potential feasible mitigation measures for the Proposed Project.

- *Chapter 11 of SCAQMD's CEQA Air Quality Handbook*
- *SCAQMD's CEQA web pages available here: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies*
- *SCAQMD's Mitigation Monitoring and Reporting Plan (MMRP) for the 2016 Air Quality Management Plan (2016 AQMP) available here (starting on page 86): http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-mar3-035.pdf*

Response 4.

The comment has been noted for the record. The proposed project's DPM emissions will be below the thresholds of significance since the trucks will employ clean air idle technology. In addition, the distance between the loading doors and the nearest sensitive receptors will also mitigate any potential impacts since the increase distance will allow any DPM to dissipate.

Comment 5.

- *Require the use of 2010 and newer haul trucks (e.g., material delivery trucks and soil import/export). In the event that that 2010 model year or newer diesel haul trucks cannot be obtained, provide documentation as information becomes available and use trucks that meet EPA 2007 model year NOx emissions requirements4, at a minimum. Additionally, consider other measures such as incentives, phase-in schedules for clean trucks, etc.*
- *Have truck routes clearly marked with trailblazer signs, so that trucks will not enter residential areas.*
- *Limit the daily number of trucks allowed at the Proposed Project to levels analyzed in the MND. If higher daily truck volumes are anticipated to visit the site, the Lead Agency should commit to re-evaluating the Proposed Project through CEQA prior to allowing this land use or higher activity level.*
- *Provide electric vehicle (EV) Charging Stations (see the discussion below regarding EV charging stations).*
- *Should the Proposed Project generate significant regional emissions, the Lead Agency should require mitigation that requires accelerated phase-in for non-diesel powered trucks. For example, natural gas trucks, including Class 8 HHD trucks, are commercially available today. Natural gas*

Attachment 11 – IS/MND Response to Comment Letter

trucks can provide a substantial reduction in health risks, and may be more financially feasible today due to reduced fuel costs compared to diesel. In the Final MND, the Lead Agency should require a phase-in schedule for these cleaner operating trucks to reduce any significant adverse air quality impacts. SCAQMD staff is available to discuss the availability of current and upcoming truck technologies and incentive programs with the Lead Agency.

Trucks that can operate at least partially on electricity have the ability to substantially reduce the significant NOx impacts from this project. Further, trucks that run at least partially on electricity are projected to become available during the life of the project as discussed in the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (2016-2040 RTP/SCS). It is important to make this electrical infrastructure available when the project is built so that it is ready when this technology becomes commercially available. The cost of installing electrical charging equipment onsite is significantly cheaper if completed when the project is built compared to retrofitting an existing building. Therefore, SCAQMD staff recommends the Lead Agency require the Proposed Project and other plan areas that allow truck parking to be constructed with the appropriate infrastructure to facilitate sufficient electric charging for trucks to plug-in. Similar to the City of Los Angeles requirements for all new projects, SCAQMD staff recommends that the Lead Agency require at least 5% of all vehicle parking spaces (including for trucks) include EV charging stations. Further, electrical hookups should be provided at the onsite truck stop for truckers to plug in any onboard auxiliary equipment. At a minimum, electrical panels should appropriately sized to allow for future expanded use.

- *Design the industrial building such that entrances and exits are such that trucks are not traversing past neighbors or other sensitive receptors.*
- *Design the industrial building such that any check-in point for trucks is well inside the Proposed Project site to ensure that there are no trucks queuing outside of the facility.*
- *Design the industrial building to ensure that truck traffic within the Proposed Project site is located away from the property line(s) closest to its residential or sensitive receptor neighbors.*
- *Restrict overnight parking in residential areas.*
- *Establish overnight parking within the industrial building where trucks can rest overnight.*
- *Establish area(s) within the Proposed Project site for repair needs.*
- *Develop, adopt, and enforce truck routes both in and out of city, and in and out of facilities.*
- *Create a buffer zone of at least 300 meters (roughly 1,000 feet), which can be office space, employee parking, greenbelt, etc. between the Proposed Project and sensitive receptors.*

Response 5.

The loading docks for Buildings 1 and 2 will be located approximately 298 feet north of the nearest sensitive receptors. The line-of-sight between these loading doors and the sensitive receptors located along the south side of Telegraph Road will be obstructed by the two warehouse buildings. Furthermore, the trucks will be prohibited from idling longer than five minutes and will consist of certified clean air idle trucks. Since most of these trucks will travel to and from the ports, they will be required to comply with the port's increasing emissions standards.

Attachment 11 – IS/MND Response to Comment Letter

BLODGETT BAYLOSIS ENVIRONMENTAL PLANNING

Comment 6.

Mitigation Measures for Operational Air Quality from Area Sources

- *Maximize use of solar energy including solar panels; installing the maximum possible number of solar energy arrays on the building roofs and/or on the Project site to generate solar energy for the facility.*
- *Maximize the planting of trees in landscaping and parking lots.*
- *Use light colored paving and roofing materials.*
- *Utilize only Energy Star heating, cooling, and lighting devices, and appliances.*
- *Install light colored "cool" roofs and cool pavements.*
- *Require use of electric or alternatively fueled sweepers with HEPA filters.*
- *Use of water-based or low VOC cleaning products.*

Response 6.

The project will be constructed pursuant to the 2016 California Green Building Code requirements. In addition, the future tenants will be required to provide incentives to encourage employees to utilize alternative transportation such as reduced public transportation fares, employee carpooling and vanpooling services, and preferential parking for carpool vehicles.

Comment 7.

Conclusion

Pursuant to CEQA Guidelines Section 15074, prior to approving the Proposed Project, the Lead Agency shall consider the MND for adoption together with any comments received during the public review process. Please provide the SCAQMD with written responses to all comments contained herein prior to the certification of the Final MND. When responding to issues raised in the comments, response should provide sufficient details giving reasons why specific comments and suggestions are not accepted. There should be good faith, reasoned analysis in response. Conclusory statements unsupported by factual information do not facilitate the purpose and goal of CEQA on public disclosure and are not meaningful or useful to decision makers and to the public who are interested in the Proposed Project.

SCAQMD staff is available to work with the Lead Agency to address any air quality questions that may arise from this comment letter. Please contact me at lsun@aqmd.gov or Daniel Garcia, Program Supervisor, at dgarcia@aqmd.gov if you have any questions.

Response 7.

This comment has been noted for the record.

PAGE 5

Attachment 11 – IS/MND Response to Comment Letter

BLODGETT BAYLOSIS ENVIRONMENTAL PLANNING

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
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SENT VIA E-MAIL AND USPS:
WayneMorrell@santafesprings.org
Wayne M Morell, Director
City of Santa Fe Springs
Planning and Development Department
11710 Telegraph Road
Santa Fe Springs, California, 90670

June 15, 2018

Mitigated Negative Declaration (MND) for the Proposed Telegraph Road and Santa Fe Springs Road Industrial Park

The South Coast Air Quality Management District (SCAQMD) staff appreciates the opportunity to comment on the above-mentioned document. The following comments are meant as guidance for the Lead Agency and should be incorporated into the Final MND.

SCAQMD Staff's Summary of Project Description
The Lead Agency proposes to build four warehouses totaling 318,121 square feet on 17.9 acres (Proposed Project). Based on a review of Exhibit 1, *Aerial Photographs*, and Exhibit 3, *Sensitive Receptors Map*, in the MND, SCAQMD staff found that existing residential uses are located in a close proximity to the Proposed Project across Telegraph Road. Construction is expected to take approximately 20 months[1].

SCAQMD Staff's Comments
In the Air Quality Analysis Section, the Lead Agency quantified the Proposed Project's construction and operational emissions and compared them to SCAQMD's regional and localized air quality CEQA significance thresholds. The Lead Agency found that the Proposed Project's air quality impacts from construction would be less than significant. Additionally, the Lead Agency conducted a Human Health Risk Assessment (HHRA) to evaluate the potential health risks associated with soil contact[2]. However, the Lead Agency did not conduct a mobile source health risk assessment for the Proposed Project. Since the Proposed Project would involve operation of four warehouses that are capable of generating or attracting vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the Lead Agency perform a mobile source health risk assessment to quantify and disclose potential health risk impacts from operation of the Proposed Project to nearby residents. Guidance for performing a mobile source health risk assessment is available at SCAQMD website[3].

SCAQMD Staff's Recommendation for Truck Trip Rates for High Cube Warehouse Projects

SCAQMD staff recommends the use of truck trip rates from the Institute of Transportation Engineers (ITE) for high cube warehouse projects located in SCAQMD (i.e. 1.68 average daily vehicle trips per 1,000 square feet and 0.64 average daily truck trips per 1,000 square feet). Consistent with CEQA Guidelines, the CEQA document for the Proposed Project may use a non-default trip rate if there is substantial evidence indicating another rate is more appropriate for the air quality analysis.

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[1] MND, Page 26.
[2] MND, Page 49.
[3] South Coast Air Quality Management District. *Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*. Accessed at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis

Attachment 11 – IS/MND Response to Comment Letter

BLODGETT BAYLOSIS ENVIRONMENTAL PLANNING

Wayne M Morell June 15, 2018

For high cube warehouse projects, SCAQMD staff has been working on a Warehouse Truck Trip Study to better quantify trip rates associated with local warehouse and distribution projects, as truck emission represent more than 90 percent of air quality impacts from these projects. Details regarding this study can be found online here: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/high-cube-warehouse

Mitigation Measures

Should the Lead Agency find, after conducting a mobile source HRA analysis, that the Proposed Project would exceed SCAQMD CEQA significance threshold of 10 in one million for cancer risk, mitigation measures would be required (CEQA Guidelines Section 15126.4). The following mitigation measures and resources are intended to assist the Lead Agency with identifying potential feasible mitigation measures for the Proposed Project.

- Chapter 11 of SCAQMD's CEQA Air Quality Handbook
- SCAQMD's CEQA web pages available here: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies
- SCAQMD's Mitigation Monitoring and Reporting Plan (MMRP) for the 2016 Air Quality Management Plan (2016 AQMP) available here (starting on page 86): http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-mar3-035.pdf

A. Mitigation Measures for Operational Air Quality from Mobile Sources

- Require the use of 2010 and newer haul trucks (e.g., material delivery trucks and soil import/export). In the event that that 2010 model year or newer diesel haul trucks cannot be obtained, provide documentation as information becomes available and use trucks that meet EPA 2007 model year NOx emissions requirements[4], at a minimum. Additionally, consider other measures such as incentives, phase-in schedules for clean trucks, etc.
- Have truck routes clearly marked with trailblazer signs, so that trucks will not enter residential areas.
- Limit the daily number of trucks allowed at the Proposed Project to levels analyzed in the MND. If higher daily truck volumes are anticipated to visit the site, the Lead Agency should commit to re-evaluating the Proposed Project through CEQA prior to allowing this land use or higher activity level.
- Provide electric vehicle (EV) Charging Stations (see the discussion below regarding EV charging stations).
- Should the Proposed Project generate significant regional emissions, the Lead Agency should require mitigation that requires accelerated phase-in for non-diesel powered trucks. For example, natural gas trucks, including Class 8 HHD trucks, are commercially available today. Natural gas trucks can provide a substantial reduction in health risks, and may be more financially feasible today due to reduced fuel costs compared to diesel. In the Final MND, the Lead Agency should require a phase-in schedule for these cleaner operating trucks to reduce any significant adverse air quality impacts. SCAQMD staff is available to discuss the availability of current and upcoming truck technologies and incentive programs with the Lead Agency.
- Trucks that can operate at least partially on electricity have the ability to substantially reduce the significant NOx impacts from this project. Further, trucks that run at least partially on electricity

[4] Based on a review of the California Air Resources Board's diesel truck regulations, 2010 model year diesel haul trucks should have already been available and can be obtained in a successful manner for the project construction California Air Resources Board. March 2016. Available at: http://www.truckload.org/tva/files/crl/library/files/Filename/000000003422/California-Clean-Truck-and-Trailer-Update.pdf (See slide #23)

2

PAGE 7

Attachment 11 – IS/MND Response to Comment Letter

are projected to become available during the life of the project as discussed in the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (2016-2040 RTP/SCS)5. It is important to make this electrical infrastructure available when the project is built so that it is ready when this technology becomes commercially available. The cost of installing electrical charging equipment onsite is significantly cheaper if completed when the project is built compared to retrofitting an existing building. Therefore, SCAQMD staff recommends the Lead Agency require the Proposed Project and other plan areas that allow truck parking to be constructed with the appropriate infrastructure to facilitate sufficient electric charging for trucks to plug-in. Similar to the City of Los Angeles requirements for all new projects, SCAQMD staff recommends that the Lead Agency require at least 5% of all vehicle parking spaces (including for trucks) include EV charging stations6. Further, electrical hookups should be provided at the onsite truck stop for truckers to plug in any onboard auxiliary equipment. At a minimum, electrical panels should appropriately sized to allow for future expanded use.

- Design the industrial building such that entrances and exits are such that trucks are not traversing past neighbors or other sensitive receptors.
- Design the industrial building such that any check-in point for trucks is well inside the Proposed Project site to ensure that there are no trucks queuing outside of the facility.
- Design the industrial building to ensure that truck traffic within the Proposed Project site is located away from the property line(s) closest to its residential or sensitive receptor neighbors.
- Restrict overnight parking in residential areas.
- Establish overnight parking within the industrial building where trucks can rest overnight.
- Establish area(s) within the Proposed Project site for repair needs.
- Develop, adopt and enforce truck routes both in and out of city, and in and out of facilities.
- Create a buffer zone of at least 300 meters (roughly 1,000 feet), which can be office space, employee parking, greenbelt, etc. between the Proposed Project and sensitive receptors.

B. Mitigation Measures for Operational Air Quality from Area Sources

- Maximize use of solar energy including solar panels; installing the maximum possible number of solar energy arrays on the building roofs and/or on the Project site to generate solar energy for the facility.
- Maximize the planting of trees in landscaping and parking lots.
- Use light colored paving and roofing materials.
- Utilize only Energy Star heating, cooling, and lighting devices, and appliances.
- Install light colored "cool" roofs and cool pavements.
- Require use of electric or alternatively fueled sweepers with HEPA filters.
- Use of water-based or low VOC cleaning products.

Conclusion

Pursuant to CEQA Guidelines Section 15074, prior to approving the Proposed Project, the Lead Agency shall consider the MND for adoption together with any comments received during the public review process. Please provide the SCAQMD with written responses to all comments contained herein prior to the certification of the Final MND. When responding to issues raised in the comments, response should provide sufficient details giving reasons why specific comments and suggestions are not accepted. There should be good faith, reasoned analysis in response. Conclusory statements unsupported by factual

[5] Southern California Association of Governments. April 2016. 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy. Accessed at: http://scagrtpscs.net/Pages/FINAL2016RTPSCS.aspx.
[6] City of Los Angeles. Accessed at: http://ladbs.org/LADBSWeb/LADBS_Forms/Publications/LAGreenBuildingCodeOrdinance.pdf

Attachment 11 – IS/MND Response to Comment Letter

BLODGETT BAYLOSIS ENVIRONMENTAL PLANNING

Wayne M Morell June 15, 2018

information do not facilitate the purpose and goal of CEQA on public disclosure and are not meaningful or useful to decision makers and to the public who are interested in the Proposed Project.

SCAQMD staff is available to work with the Lead Agency to address any air quality questions that may arise from this comment letter. Please contact me at lsun@aqmd.gov or Daniel Garcia, Program Supervisor, at dgarcia@aqmd.gov if you have any questions.

Sincerely,

Lijin Sun

Lijin Sun, J.D.
Program Supervisor, CEQA IGR
Planning, Rule Development & Area Sources

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Control Number

4

PAGE 9

Attachment 12 - Resolution 82-2018

CITY OF SANTA FE SPRINGS
RESOLUTION NO. 82-2018

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SANTA FE SPRINGS REGARDING TENTATIVE PARCEL MAP NO. 78232 & DEVELOPMENT PLAN APPROVAL CASE NO. 930 & DEVELOPMENT PLAN APPROVAL CASE NO. 931 & DEVELOPMENT PLAN APPROVAL CASE NO. 932 & DEVELOPMENT PLAN APPROVAL CASE NO. 933

WHEREAS, a request was filed for Tentative Parcel Map No. 78232 to allow an approximately 44.67-acre site to be subdivided into five (5) parcels measuring 186,493 sq. ft. (Parcel 1), 153,827 sq. ft. (Parcel 2), 298,474 sq. ft. (Parcel 3), 140,791 sq. ft. (Parcel 4), and 1,166,135 sq. ft. (Parcel 5) in the M-2, Heavy Manufacturing, Zone and Telegraph Road Corridor; and

WHEREAS, a request was filed for Development Plan Approval Case No. 930 to allow the construction of a 78,417 sq. ft. concrete tilt-up building (Building 1) on property located within the M-2, Heavy Manufacturing, Zone and Telegraph Road Corridor; and

WHEREAS, a request was filed for Development Plan Approval Case No. 931 to allow the construction of a 58,463 sq. ft. concrete tilt-up building (Building 2) on property located within the M-2, Heavy Manufacturing, Zone and Telegraph Road Corridor; and

WHEREAS, a request was filed for Development Plan Approval Case No. 932 to allow the construction of a 121,124 sq. ft. concrete tilt-up building (Building 3) on property located within the M-2, Heavy Manufacturing, Zone and Telegraph Road Corridor; and

WHEREAS, a request was filed for Development Plan Approval Case No. 933 to allow the construction of a 60,117 sq. ft. concrete tilt-up building (Building 4) on property located within the M-2, Heavy Manufacturing, Zone and Telegraph Road Corridor; and

WHEREAS, the subject property is located at the northwest corner of Telegraph Road and Santa Fe Springs Road, with Accessor's Parcel Numbers of 8005-015-011, 8005-015-013, 8005-015-023, 8005-015-024, 8005-015-025, 8005-015-026, and 8005-015-027, as shown in the latest rolls of the Los Angeles County Office of the Assessor; and

WHEREAS, the property owner is Breitburn Operating L.P., 7087 Wilshire Boulevard, 46ths Floor, Los Angeles, CA 90017; and

WHEREAS, the proposed Tentative Parcel Map No. 78232 and Development Plan Approval Case Numbers 930 – 933 are considered a project as defined by the California Environmental Quality Act (CEQA), Article 20, Section 15378(a); and

WHEREAS, based on the information received from the applicant and staff's assessment, it was found and determined that the proposed project will not have a significant adverse effect on the environmental following mitigation, therefore, the City caused to be prepared and proposed to adopt an Initial Study/Mitigated Negative Declaration (IS/MND) for the proposed project; and

WHEREAS, the City of Santa Fe Springs Planning and Development Department on June 27, 2018 published a legal notice in the *Whitter Daily News,* a local paper of general circulation, indicating the date and time of the public hearing, and also mailed said public hearing notice on June 27, 2018 to each property owner within a 500 foot radius of the project site in accordance with state law; and

WHEREAS, the City of Santa Fe Springs Planning Commission has considered the application, the written and oral staff report, the General Plan and zoning of the subject property, the testimony, written comments, or other materials presented at the Planning Commission Meeting on July 9, 2018 concerning Tentative Parcel Map No. 78232 and Development Plan Approval Case Nos. 930 - 933.

NOW, THEREFORE, be it RESOLVED that the PLANNING COMMISSION of the CITY OF SANTA FE SPRINGS does hereby RESOLVE, DETERMINE and ORDER AS FOLLOWS:

SECTION I. ENVIRONMENTAL FINDINGS AND DETERMINATION

The proposed development is considered a project under the California Environmental Quality Act (CEQA) and as a result, the project is subject to the City's environmental review process. The environmental analysis provided in the Initial Study indicated that the proposed project will not result in any significant adverse immitigable impacts to the environment, therefore, the City required the preparation and adoption of a Mitigated Negative Declaration (MND) for the proposed Project. The MND reflects the independent judgment of the City of Santa Fe Springs, and the environmental consultant, Blodgett/Baylosis Environmental Planning.

The Initial Study determined that the proposed project is not expected to have any significant adverse environmental impacts. The following findings can be made regarding the Mandatory Findings of Significance set forth in Section 15065 of the CEQA Guidelines based on the results of this Initial Study:

- The proposed project *will not* have the potential to degrade the quality of the environment.
- The proposed project *will not* have the potential to achieve short-term goals to the disadvantage of long-term environmental goals.
- The proposed project *will not* have impacts that are individually limited, but cumulatively considerable, when considering planned or proposed development in the immediate vicinity.
- The proposed project *will not* have environmental effects that will adversely affect humans, either directly or indirectly.

In addition, pursuant to Section 21081(a) of the Public Resources Code, findings must be adopted by the decision-maker coincidental to the approval of a Mitigated Negative Declaration, which relates to the Mitigation Monitoring Program. These findings shall be incorporated as part of the decision-maker's findings of fact, in response to AB-3180 and in compliance with the requirements of the Public Resources Code. In accordance with the requirements of Section 21081(a) and 21081.6 of the Public Resources Code, the City of Santa Fe Springs can make the following additional findings:

- A mitigation reporting or monitoring program will be required; and,
- An accountable enforcement agency or monitoring agency shall be identified for the mitigation measures adopted as part of the decision-maker's final determination.

A number of mitigation measures have been recommended as a means to reduce or eliminate potential adverse environmental impacts to insignificant levels. AB-3180 requires that a monitoring and reporting program be adopted for the recommended mitigation measures.

SECTION II. TENTATIVE PARCEL MAP FINDINGS

Pursuant to Section 154.07 of the Municipal Code, a tentative map shall not be approved unless the Planning Commission finds that the proposed subdivision, together with the provisions for its design and improvements, is consistent with the general plan as required by Section 66473.5 of the Subdivision Map Act. Additionally, the Planning Commission shall deny a tentative map if it makes any of the findings set forth in Sections 66474 and 66474.6 of the Subdivision Map Act.

A) *Section 66473.5 and Sections 66474(a) and (b) of the Subdivision Map Act require tentative maps to be consistent with the general plan and specific plans. The proposed Tentative Parcel Map, subject to the attached conditions, is in accordance with the Subdivision Map Act in that:*

Approval of the proposed Parcel Map would promote a number of specific General Plan Goals and Policies as described in the table below:

General Plan Consistency Analysis

General Plan Element	*Policy*	**Project Consistency**
	Goal 5: Provide an environment to stimulate local employment, community spirit, property values, community stability, the tax base, and the viability of local business.	The map will facilitate the development of four Class A buildings, which are expected to provide more jobs and generate a higher property tax than currently collected for the oil field.

Land Use	**Goal 9:** Provide for growth and diversification of industry and industrial related activities within the Santa Fe Springs industrial area.	The consolidation of several small parcels into five (5) parcels will provide industrial and commercial use that provide a more viable development opportunity of the subject site.
	Policy 9.1: Consideration of providing an adequate tax base from property tax or sales tax income.	The project will construct four Class A buildings, which are expected to generate higher property taxes than currently collected for the oil field.
	Policy 9.4: Encourage the grouping of adjoining small or odd shaped parcels in order to create more viable development.	The consolidation of several small parcels, some of which are landlocked and unable to be developed, and subdivision into five (5) viable parcels will provide for industrial and commercial uses that provide a more viable development opportunity of the subject site.
	Goal 11: Support and encourage the viability of the industrial and commercial areas of Santa Fe Springs.	The consolidation and subdivision of the existing lots enables the site to be developed into an industrial business park.

The proposed parcel map, subject to the attached conditions, is compatible with the goals and objectives of the various elements of the City of Santa Fe Springs General Plan, and therefore, is in compliance with Government Code Sections 66473.5, and 66474(a) and (b).

B) *Sections 66474(c) and (d) of the Subdivision Map Act require the site to be physically suitable for the type of development and proposed density of development.*

In addition to the proposed parcel map, the applicant is concurrently seeking approval to allow for the construction of four Class A industrial buildings on parcels 1, 2, 3, and 4. Parcel 5 will continue to be utilized for oil extraction operations. The existing zoning permits warehouse uses and oil and gas drilling for properties within the M-2, Heavy Manufacturing, zone. All public streets and utility services necessary and sufficient for the full use, occupancy, and operation of the future industrial business park, including water, storm drain(s), sanitary sewer, gas, electric, cable and telephone facilities, are readably available.

C) *Sections 66474(e) and (f) of the Subdivision Map Act require that the design of the subdivision or the proposed improvements are not likely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat or is likely to cause serious public health concerns.*

The project site is not located in a sensitive environment, but rather in a fully urbanized area surrounded by various land uses. None of the parcels, pre and

post subdivision, contain any riparian habitats, wetland habitats, and are not utilized for movement of any known native wildlife species of migratory fish or wildlife species; consequently, the design of the subdivision is unlikely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat. Additionally, as required by the California Environmental Quality Act (CEQA), an Initial Study (IS)/Mitigated Negative Declaration (MND) was prepared for the proposed apartment project. According to the IS/MND, the project is not expected to have any impacts on biological resources or cause serious public health problems.

D) *Section 66474(g) of the Subdivision Map Act requires that the design of the subdivision or the type of improvements will not conflict with easements, acquired by the public at large, for access through or use of, property within the proposed subdivision.*

New easements for utility or roadways, if necessary, will be provided prior to final map approval. Two right-turn lanes are anticipated to be recorded on the final map.

E) *In accordance with Government Code Section 66474.6, it has been determined that the discharge of waste from the proposed subdivision, subject to the attached conditions, into the existing sewer system will not result in a violation of the requirements prescribed by the Regional Water Quality Control Board in that the developer is required to comply with the IS/MND Mitigation Monitoring and Reporting Program, submit an erosion control plan and comply with the NPDES Best Management Practices during the grading and construction phases of the project.*

The project will meet all state and local ordinances and requirements including the California Regional Water Quality Control Board.

F) *That the proposed subdivision shall be in accordance with Government Code Section 66473.1, entitled "Design of Subdivisions to provide for Future Passive or Natural Heating and Cooling Opportunities."*

Future Passive or Natural Heating and Cooling Opportunities will be incorporated with the proposed developments. To the extent feasible, staff will review the proposed developments to ensure that energy-saving devices or materials, including, but not limited to, insulation, double-pane windows, and high efficiency central heating and cooling systems will be incorporated.

SECTION III. DEVELOPMENT PLAN APPROVAL FINDINGS

Pursuant to Section 155.739 of the City of Santa Fe Springs Zoning Regulations, the Planning Commission shall consider the following findings in their review and

determination of the subject Development Plan Approval. Based on the available information, the City of Santa Fe Springs Planning Commission hereby make the following findings:

(A) *That the proposed development is in conformance with the overall objectives of this chapter.*

The proposed project is located within the M-2, Heavy Manufacturing, Zone. Pursuant to Section 155.240 of the Zoning Regulations, "The purpose of the M-2 Zone is to preserve the lands of the city appropriate for heavy industrial uses, to protect these lands from intrusion by dwellings and inharmonious commercial uses, to promote uniform and orderly industrial development, to create and protect property values, to foster an efficient, wholesome and aesthetically pleasant industrial district, to attract and encourage the location of desirable industrial plants, to provide an industrial environment which will be conducive to good employee relations and pride on the part of all citizens of the community and to provide proper safeguards and appropriate transition for surrounding land uses."

The proposed project is consistent with the purpose of the M-2 Zone in the following manner:

1. The land is appropriate for industrial uses based on its zoning, M-2, Heavy Manufacturing and its General Plan Land Use designation of Industrial.
2. The proposed project is and industrial business park, therefore the land is being maintained for industrial uses.
3. The project involves the construction of a new and attractive industrial business park on a site that is currently utilized for oil extraction operations. The assessed value of the property will significantly improve after the project, thus leading to an increase in property values for both the subject property and neighboring properties.
4. The proposed project complies with all development standards set forth in the M-2 Zone.

(B) *That the architectural design of the proposed structures is such that it will enhance the general appearance of the area and be in harmony with the intent of this chapter.*

The subject parcel has been utilized for oil extraction operations for many decades. The proposed project will be a significant improvement to the subject site. The architect used multiple variations in height, setback, materials and color. The result is an attractive project with contemporary buildings that is comparable to other high quality office/industrial projects here in Santa Fe Springs. In addition, the project meets or exceeds all requirements of the City's Zoning Regulations. The project's overall compliance validates that it is in harmony with the overall intent of the City's Zoning Regulations.

(C) *That the proposed structures be considered on the basis of their suitability for their intended purpose and on the appropriate use of materials and on the principles of proportion and harmony of the various elements of the buildings or structures.*

The proposed buildings are well-designed and should be highly suitable for a variety of office, manufacturing or warehouse-type users. The design of the industrial business park provides quality architectural design, as demonstrated by glazing, pop-outs, and variations in height, materials, and color. These architectural design elements break up the mass of the buildings, and present an attractive, distinctive façade to visitors. As designed, the new buildings are suitable for their intended users, and the distinctive design of the buildings represents the architectural principles of proportion and harmony. In addition, the buildings are designed with similar architectural features in order to create harmony and consistency throughout the development.

(D) *That consideration be given to landscaping, fencing and other elements of the proposed development to ensure that the entire development is in harmony with the objectives of this chapter.*

Extensive consideration has been given to numerous elements of the proposed project to achieve harmony with the City's Zoning Regulations. As proposed, the project meets or exceeds all development standards set for in the City's zoning regulations and the project does not require any modification permits and/or zone variances. Landscaping helps to soften building mass and parking areas, loading doors and potential trucking activities are screened by the orientation of buildings, and meandering sidewalks throughout the site frontage provide a safe and attractive pedestrian pathway.

(E) *That it is not the intent of this subchapter to require any particular style or type of architecture other than that necessary to harmonize with the general area.*

As stated previously, the proposed buildings are contemporary in design. The architect used variations in the provide setback, materials and color. The style and architecture of the proposed building is consistent with other high quality buildings in the general area.

(F) *That it is not the intent of this subchapter to interfere with architectural design except to the extent necessary to achieve the overall objectives of this chapter.*

Pursuant to Section 155.736 of the Zoning Regulations "The purpose of the development plan approval is to assure compliance with the provisions of this chapter and to give proper attention to the sitting of new structures or additions or alterations to existing structures, particularly in regard to unsightly and undesirable appearance, which would have an adverse effect on surrounding properties and

the community in general." The Planning Commission finds that the new buildings will be an enhancement to the overall area. The Planning Commission believes that proper attention has been given to the location, size, and design of the proposed buildings.

SECTION IV. PLANNING COMMISSION ACTION

The Planning Commission hereby adopts Resolution No. 82-2018 to approve Tentative Parcel Map No. 78232 to allow an approximately 44.67-acre site to be subdivided into five (5) parcels measuring 186,493 sq. ft. (Parcel 1), 153,827 sq. ft. (Parcel 2), 298,474 sq. ft. (Parcel 3), 140,791 sq. ft. (Parcel 4), and 1,166,135 sq. ft. (Parcel 5); to approve Development Plan Approval Case No. 930 to allow the construction of a 78,417 sq. ft. concrete tilt-up building (Building 1); to approve Development Plan Approval Case No. 931 to allow the construction of a 58,463 sq. ft. concrete tilt-up building (Building 2); to approve Development Plan Approval Case No. 932 to allow the construction of a 121,124 sq. ft. concrete tilt-up building (Building 3); to approve Development Plan Approval Case No. 933 to allow the construction of a 60,117 sq. ft. concrete tilt-up building (Building 4); and to approve and adopt the proposed Initial Study/Mitigated Negative Declaration, and Mitigation Monitoring and Reporting Program (IS/MND/MMRP), subject to conditions attached hereto as Exhibit A and Exhibit B.

ADOPTED and APPROVED this 10th day of September, 2018 BY THE PLANNING COMMISSION OF THE CITY OF SANTA FE SPRINGS.

Ralph Aranda, Chairperson

ATTEST:

Teresa Cavallo, Planning Secretary

Exhibit A
CONDITIONS OF APPROVAL FOR TPM 78232:

ENGINEERING / PUBLIC WORKS DEPARTMENT:
(Contact: Robert Garcia 562-868-0511 x7545)

1. Final parcel map checking of $4,824 plus $285 per parcel shall be paid to the City. Developer shall comply with Los Angeles County's Digital Subdivision Ordinance (DSO) and submit final maps to the City and County in digital format.

2. The applicant shall provide at no cost to the City, one mylar print of the recorded parcel map from the County of Los Angeles Department of Public Works, P.O. Box 1460, Alhambra, CA 91802-1460, Attention: Bill Slenniken (626) 458-5131.

3. A reciprocal access easement Agreement covering each parcel of the subject map shall be prepared, executed and recorded in the Office of the Los Angeles County Recorder. Such Agreement and any CC&R's shall be subject to the approval of the City Attorney.

PLANNING AND DEVELOPMENT DEPARTMENT:
(Contact: Laurel Reimer 562.868-0511 x7354)

4. Provisions shall be made for appropriate television systems and for communication systems, including, but not limited to, telephone and internet services. Appropriate cable television systems, as used, means those franchised or licensed to serve the geographical area in which the subdivision is located.

5. The Final Map to be recorded with the Los Angeles County Recorder shall substantially conform to the Tentative Parcel Map submitted by the applicant and on file with the case.

6. Currently, the County of Los Angeles Department of Public Works is utilizing a computerized system to update and digitize the countywide land use base. If the parcel map is prepared using a computerized drafting system, the applicant or their civil engineer shall submit a map in digital graphic format with the final Mylar map to the County of Los Angeles Department of Public Works for recordation and to the City of Santa Fe Springs Department of Public Works for incorporation into its GIS land use map. The City of Santa Fe Springs GIS Coordinate System shall be used for the digital file.

7. Tentative Parcel Map No. 78232 shall expire 24 months after Planning Commission approval, on September 10, 2020, except as provided under the provisions of California Government Code Section 66452.6. During this time period the final map shall be presented to the City of Santa Fe Springs for approval. The subdivision proposed by Tentative Parcel Map No. 78232 shall not be effective until such time that a final map is recorded.

8. The "Subdivider," Breitburn Operating L.P., agrees to defend, indemnify and hold harmless the City of Santa Fe Springs, its agents, officers and employees from any claim, action or proceeding against the City or its agents, officers or employees to attack, set aside, void or annul an approval of the City or any of its councils, commissions, committees or boards concerning the subdivision when action is brought within the time period provided for in Government Code, Section 66499.37. Should the City, its agents, officers or employees receive notice of any such claim, action or proceeding, the City shall promptly notify subdivider of such claim, action or proceeding and shall cooperate fully in the defense thereof.

9. This approval is not effective until the applicant has completed and signed the signature element appearing at the bottom of the last page of these conditions, and returned the original completed and signed document to the City, confirming the applicant's understanding of these conditions and its willingness to accept and comply with them.

The applicant identified below hereby confirms (1) that it has reviewed and understands each of the foregoing conditions for Tentative Parcel Map 78232, and (2) its willingness to accept and comply with them.

_____
Name of Applicant – Print

_____ _____
Signature of Authorized Agent Date

Exhibit B:
CONDITIONS OF APPROVAL FOR DPAs 930-933:

ENGINEERING / PUBLIC WORKS DEPARTMENT:
(Contact: Robert Garcia 562.868-0511 x7545)

STREETS

1. Prior to the issuance of building permits, the applicant and/or developer shall pay a flat fee of $203,715 to reconstruct/resurface the existing street frontage to centerline for Telegraph Road & Santa Fe Springs Road.

2. Prior to the issuance of building permits, the applicant and/or developer shall pay a flat fee of $5,000 for the upgrade and installation of an Emergency Vehicle Preemption System (OPTICOM) at the intersection of Telegraph Road and Santa Fe Springs Road as determined by the City Engineer and Fire Chief.

3. The applicant/or developer shall design and construct a 5-foot wide meandering sidewalk per City standards and dedicate an easement along the Telegraph Road & Santa Fe Springs Road street frontage. The dedicated easement shall be shown on the Parcel Map. Furthermore, said meandering sidewalk shall be shown on both the civil and landscape plans.

4. The applicant and/or developer shall design and construct/modify one (1) existing raised Median Island on Santa Fe Springs Road to accommodate left turns into the northernmost proposed driveway.

5. Prior to the issuance of building permits, the applicant and/or developer shall pay the costs associated with the furnishing and installation of traffic signal modifications; including protected Northbound/Southbound left turn traffic signal phasing at the intersection of Telegraph Road and Santa Fe Springs Road. The cost estimate for the modifications (add left turn phasing) at the Telegraph/Bloomfield signal is $191,000.

6. Full street improvements shall be constructed to the City standards in accordance with plans prepared by the applicant and/or developer and approved by the City Engineer. Street to be improved shall include Telegraph Road & Santa Fe Springs Road for the purpose of installing Right turn pockets. A soils report shall be prepared and submitted as directed by the City Engineer to determine proposed street structural section.

7. Street right-of-way easements shall be dedicated as follows:
    a) Along the north side of Telegraph Road for the construction of a right turn pocket.
    b) Along the west side of Santa Fe Springs Road for the construction of a right turn pocket.

8. All above ground oil wells, pipelines, tanks, and related lines within the public right-of-way shall be removed from the right-of-way unless otherwise approved by the City Engineer.

9. Adequate "on-site" parking shall be provided per City requirements, and all streets abutting the development shall be posted "No Stopping Any Time." The City will install the offsite signs and the applicant and/or developer shall pay $ 3,000.00 to install (15) new signs.

10. The applicant and/or developer shall be responsible for the installation, replacement or modification of street name signs, traffic control signs, striping and pavement markings required in conjunction with the development. The applicant and/or developer shall be responsible for coordination of said work, as well as all associated fees, permits, materials, etc.

11. Proposed driveways shall be located to clear existing fire hydrants, street lights, water meters, etc.

CITY UTILITIES

12. Storm drains, catch basins, connector pipes, retention basin and appurtenances built for this project shall be constructed in accordance with City specifications in Telegraph Road & Santa Fe Springs Road. Storm drain plans shall be approved by the City Engineer.

13. Fire hydrants shall be installed as required by the Fire Department. Existing public fire hydrants adjacent to the site, if any, shall be upgraded if required by the City Engineer. The applicant and/or developer shall pay to the City the entire cost of design, engineering, installation and inspection of Fire hydrants.

14. Sanitary sewers shall be constructed in accordance with City specifications to serve the subject development. The plans for the sanitary sewers shall be approved by the City Engineer. A sewer study (including a sewer flow test) shall be submitted along with the sanitary sewer plans.

15. All buildings shall be connected to the sanitary sewers.

16. The fire sprinkler plans, which show the proposed double-check valve detector assembly location, shall have a stamp approval from the Planning Department and Public Works Department prior to the Fire Department's review for approval. Disinfection, pressure and bacteriological testing on the line between the street and detector assembly shall be performed in the presence of personnel from the City Water Department. The valve on the water main line shall be operated only by the City and only upon the City's approval of the test results.

17. The applicant and/or developer shall obtain a Storm Drain Connection Permit for any connection to the storm drain system.

18. The applicant and/or developer shall have an overall site utility master plan prepared by a Registered Civil Engineer showing the proposed location of all public water mains, reclaimed water mains, sanitary sewers and storm drains. This plan shall be approved by the City Engineer prior to the preparation of any construction plans for the aforementioned improvements.

TRAFFIC

19. All points of access to the proposed development have been reviewed and approved by the City Engineer. Left turns will only be allowed into the proposed development from the most northerly driveway on Santa Fe Springs Road. Left turns out of the proposed development will be allowed from both northerly and southerly driveways on Santa Fe Springs Road.

FEES

20. The applicant and/or developer shall comply with Congestion Management Program (CMP) requirements and provide mitigation of trips generated by the development. The applicant and/or developer will receive credit for the demolition of any buildings that formerly occupied the site. For new developments, if the applicant and/or developer cannot meet the mitigation requirements, the applicant and/or developer shall pay a mitigation fee to be determined by the City Engineer for off-site transportation improvements. This mitigation fee shall be paid prior to issuance of building permits.

21. The applicant and/or developer shall comply with all requirements of the County Sanitation District, make application for and pay the sewer maintenance fee.

22. The applicant and/or developer shall pay the water trunkline connection fee of $3,700 per acre upon application for water service connection or if utilizing any existing water service.

MISCELLANEOUS

23. A grading plan shall be submitted for drainage approval to the City Engineer. The applicant and/or developer shall pay drainage review fees in conjunction with this submittal. A professional civil engineer registered in the State of California shall prepare the grading plan.

24. A hydrology study shall be submitted to the City if requested by the City Engineer. The study shall be prepared by a Professional Civil Engineer.

25. Upon completion of public improvements constructed by developers, the developer's civil engineer shall submit mylar record drawings and an electronic file (AutoCAD Version 2004 or higher) to the office of the City Engineer.

26. The applicant and/or developer shall comply with the National Pollutant Discharge Elimination System (NPDES) program and shall require the general contractor to implement storm water/urban runoff pollution prevention controls and Best Management Practices (BMPs) on all construction sites in accordance with the current MS4 Permit. The applicant and/ or developer will also be required to submit a Certification for the project and will be required to prepare a Storm Water Pollution Prevention Plan (SWPPP) and Low Impact Development Plan (LID).

POLICE SERVICES DEPARTMENT:
(Contact: Lou Collazo 562.868-0511 x3320)

27. The applicant and/or developer shall submit and obtain approval of a proposed lighting (photometric) plan for the property from the City's Department of Police Services. The photometric plan shall be designed to provide adequate lighting (minimum of 1 foot candle power) throughout the subject property. Further, all exterior lighting shall be designed/installed in such a manner that light and glare are not transmitted onto adjoining properties in such concentration/quantity as to create a hardship to adjoining property owners or a public nuisance. The photometric plans shall be submitted to the Director of Police Services prior to building permit issuance.

28. The developer shall provide an emergency phone number and a contact person of the person or persons involved in the supervision of the construction to the Department of Police Services. The name, telephone number, fax number and e-mail address of that person shall be provided to the Director of Police Services no later than 60 days from the date of approval by the Planning Commission. Emergency information shall allow emergency service to reach the developer or their representative any time, 24 hours a day.

29. In order to facilitate the removal of unauthorized vehicles parked on the property, the developer shall post, in plain view and at each entry to the property, a sign not less than 17" wide by 22" long. The sign shall prohibit the public parking of unauthorized vehicles and indicate that unauthorized vehicles will be removed at the owner's expense and also contain the California Vehicle Code that permits this action. The sign shall also contain the telephone number of the local law enforcement agency (Police Services Center (562) 409-1850). The lettering within the sign shall not be less than one inch in height. The developer shall contact the Police Services Center for an inspection no later than 30 days after the project has been completed and prior to the occupancy permit being issued.

30. All work shall be conducted inside at all times including, but not limited to, all loading and unloading of trailers. Items shall not be left out awaiting loading.

31. Off-street parking areas shall not be reduced or encroached upon by outdoor storage and/or for the placement of merchandize.

32. All new businesses fronting on Telegraph Road shall be aware that they are subject strict noise levels pursuant to Section 155.424 (E).

33. The proposed buildings, including any lighting, fences, walls, cabinets, and poles shall be maintained in good repair, free from trash, debris, litter and graffiti and other forms of vandalism. Any damage from any cause shall be repaired within 72 hours of occurrence, weather permitting, to minimize occurrences of dangerous conditions or visual blight. Paint utilized in covering graffiti shall be a color that matches, as closely possible, the color of the existing and/or adjacent surfaces.

34. During the construction phase of the proposed project, the contractor shall provide an identification number (i.e. address number) at each building and/or entry gate to direct emergency vehicles in case of an emergency. The identification numbers may be painted on boards and fastened to the temporary construction fence. The boards may be removed after each building has been identified with their individual permanent number address.

35. It shall be the responsibility of the job-supervisor to maintain the job site in a clean and orderly manner. Dirt and debris that has migrated to the street or neighboring properties shall be immediately cleaned.

36. During construction, out-houses, porta potties, or the like, shall not be visible from the public street and shall be maintained on a regular basis.

DEPARTMENT OF FIRE - RESCUE (FIRE PREVENTION DIVISION):
(Contact: Richard Kallman 562.868-0511 x3710)

37. All buildings over 5,000 sq. ft. shall be protected by an approved automatic sprinkler system per Section 93.11 of the Santa Fe Springs Municipal Code.

38. The applicant and/or developer shall comply with the requirements of Section 117.131 of the Santa Fe Springs Municipal Code, Requirement for a Soil Gas Study, in accordance with Ordinance No. 955, prior to issuance of building permits.

39. When applicable, abandoned oil wells must be exposed and inspected under the oversight of a registered engineer or geologist. The wells must be monitored for methane leaks and the precise location of each abandoned well shall be surveyed. A report of findings along with a description of any recommended remedial actions needed to comply with the Division of Oil, Gas, and Geothermal Resources, signed by a registered engineer or geologist, must be provided to the Fire Department.

40. A methane gas protection system designed in accordance with the standards established by the County of Los Angeles shall be required for all habitable structures. Plans for the proposed methane gas protection system shall be submitted to the Department of Fire-Rescue prior to construction. An alternative to the County of Los Angeles standards may be acceptable if approved by the Department of Fire-Rescue.

41. Interior gates or fences are not permitted across required Fire Department access roadways unless otherwise granted prior approval by the City Fire Department.

42. If on-site fire hydrants are required by the Fire Department, a minimum flow must be in accordance with Appendix B from the current Fire Code flowing from the most remote hydrant. In addition, on-site hydrants must have current testing, inspection and maintenance per California Title 19 and NFPA 25.

43. The standard aisle width for onsite emergency vehicle maneuvering shall be 26 feet with a minimum clear height of 13 feet 6 inches. Internal driveways shall have a turning radius of not less than 52 feet. The final location and design of this 26 feet shall be subject to the approval of the City's Fire Chief as established by the Uniform Fire Code. A request to provide emergency vehicle aisle width less than 26 feet shall be considered upon the installation/provision of mitigation improvements approved by the City's Fire Chief.

44. Prior to submitting plans to the Building Department, a preliminary site plan shall be approved by the Fire Department for required access roadways and on-site fire hydrant locations. The site plan shall be drawn at a scale between 20 to 40 feet per inch. Include on plan all entrance gates that will be installed.

45. Knox boxes are required on all new construction. All entry gates shall also be equipped with Knox boxes or Knox key switches for power-activated gates.

46. Signs and markings required by the Fire Department shall be installed along the required Fire Department access roadways.

47. The applicant and/or developer shall apply for a permit with the Department of Fire-Rescue and comply with the requirements of Section 117.127 of the Santa Fe Springs Municipal Code, Criteria for Abandonment, prior to abandoning or re-abandoning any oil wells on-site.

48. A system for venting of abandoned oil wells over which there will be construction, in accordance with Section 117.130 of the Santa Fe Springs Municipal Code, shall be required. Plans for the venting system shall be submitted to the Department of Fire-Rescue prior to construction.

DEPARTMENT OF FIRE - RESCUE (ENVIRONMENTAL DIVISION):
(Contact: Tom Hall 562.868-0511 x3715)

49. Permits and approvals. The applicant and/or developer shall, at its own expense, secure or cause to be secured any and all permits or other approvals which may be required by the City and any other governmental agency prior to conducting environmental assessment or remediation on the property. Permits shall be secured prior to beginning work related to the permitted activity.

50. The applicant and/or developer shall submit plumbing plans to the Santa Fe Springs Department of Fire-Rescue Environmental Protection Division (EPD) and, if necessary, obtain an Industrial Wastewater Discharge Permit Application for generating, storing, treating or discharging any industrial wastewater to the sanitary sewer.

51. The applicant and/or developer shall provide a sampling plan to the Department of Fire-Rescue for active oil wells that will be abandoned prior to site development.

WASTE MANAGEMENT:
(Contact: Teresa Cavallo 562.868.0511 x7309)

52. The developer shall comply with Section 50.51 of the Municipal Code which prohibits any business or residents from contracting any solid waste disposal company that does not hold a current permit from the City.

53. All projects over $50,000 are subject to the requirements of Ordinance No. 914 to reuse or recycle 75% of the project waste. Contact the Environmental Consultant, Morgan McCarthy at (562) 432-3700 or (805) 815-2492.

54. The developer shall comply with Public Resource Code, Section 42900 et seq. (California Solid Waste Reuse and Recycling Access Act of 1991) as amended, which requires each development project to provide adequate storage area for the collection/storage and removal of recyclable and green waste materials.

PLANNING AND DEVELOPMENT DEPARTMENT:
(Contact: Laurel Reimer 562.868-0511 x7354)

55. Approval of Development Plan Approval Case Numbers 930, 931, 932 and 933 is contingent upon approval of Tentative Parcel Map Case No. 78232.

56. The owner/developer shall comply with the City's "Heritage Artwork in Public Places Program" in conformance with City Ordinance No. 1054.

57. The owner/developer shall be responsible for reviewing and/or providing copies of the required conditions of approval to his/her architect, engineer, contractor, tenants, etc. Additionally, the conditions of approval contained herein shall be made part of the construction drawings for the proposed development. *Construction drawings shall not be accepted for Plan Check without the conditions of approval incorporated into the construction drawings.*

58. The owner/developer shall indicated on the first page of the construction drawings that the subject property is located within the methane zone. Said indication shall be clearly printed with a minimum 12 point font size.

59. The owner/developer shall apply for a Well Review Report (report) through the Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR). A copy of this report shall be provide to the Planning Department. If historic oil wells are identified on-site, well abandoned to current DOGGR standards may be required before a building permit can be issued.

60. The owner/developer shall apply for an Oilfield Site Plan Review through the Planning Department prior to issuance of a building permit.

61. To prevent the travel of combustible methane gas into any structure, all slab or foundation penetrations, including plumbing, communication and electrical penetrations, must be sealed with an appropriate material. In addition, underground electrical conduits penetrating the slab or foundation of the structure, shall comply with the National Electrical Code (NEC), replete with a seal-off device normally required for classified electrical installations, so as to prevent the travel of combustible methane gas into the structure through conduit runs. *Refer to California Electrical Code, Chapter 5, Sections 500 and 501.*

62. The owner/developer shall submit Mechanical plans that include a roof plan that shows the location of all roof mounted equipment. All roof-mounted mechanical equipment and/or duct work which projects above the roof or roof parapet of the proposed development and is visible from adjacent property or a public street shall be screened by an enclosure which is consistent with the architecture of the building and approved by the Director of Planning or designee.
    a. To illustrate the visibility of equipment and/or duct work, the following shall be submitted along with the Mechanical Plans:
        i. A roof plan showing the location of all roof-mounted equipment;
        ii. Elevations of all existing and proposed mechanical equipment; and
        iii. A line-of-sight drawing or a building cross-section drawing which shows the roof-mounted equipment and its relation to the roof and parapet lines.

    NOTE: line-of sight drawing and/or building cross section must be scaled.

63. The owner/developer shall submit a lighting program that is integrated into the overall site, landscape design and building design. Lighting shall be used to highlight prominent building features such as entries and other focal points. Up-lighting can also be used as a way to enhance the texture of plants and structures, to create a sense of height in a landscape design.

64. The owner/developer agrees and understands that any existing overhead utilities within the development shall be placed underground.

65. All fences, walls, gates and similar improvements for the proposed development shall be subject to the prior approval of the Fire Department and the Department of Planning and Development.

66. All approved outdoor trash enclosures shall be provided for the development subject to the approval of the Director of Planning or designee. The calculation to determine the required storage area shall be determine by the City Building Department.

67. All outdoor trash enclosures shall provide a solid roof cover.

68. All street-facing roof drains shall be provided along the interior walls and not along the exterior of the building.

69. The proposed development shall be constructed of quality material and any material shall be replaced when and if the material becomes deteriorated, warped, discolored or rusted.

70. Approved suite numbers/letters or address numbers shall be placed on the proposed building in such a position as to be plainly visible and legible from the street fronting the property. Said numbers shall contrast with their background. The size recommendation shall be 12" minimum.

71. The owner/developer shall submit a mailbox plan (locations and sizes) for all parcels prior to the issuance of building permits. The plan shall be approved by the Santa Fe Springs Post Office. The owner/developer shall submit to the City a written confirmation from the Santa Fe Springs Post Office that the mailbox locations are approved. The City shall review and approve the location plan to ensure adequate site distance and traffic safety measures are incorporated.

72. The Department of Planning and Development requires that the double-check detector assembly be placed as far back from the property line as practical, screened by shrubs or other materials, and painted forest green. All shrubs shall be planted a minimum distance of two (2) feet surrounding the detector assembly; however, the area in front of the OS and Y valves shall not be screened. The screening shall also only be applicable to the double-check detector assembly and shall not include the fire department connector (FDC). Notwithstanding, the Fire Marshall shall have discretionary authority to require the FDC to be located a minimum distance from the double-check detector assembly. The bottom of the valve shut off wheel shall be located a maximum of two (2) feet above ground.

73. Owner/developer shall submit for approval a detailed landscape and automatic irrigation plan pursuant to the Landscaping Guidelines of the City. Said landscape plan shall indicate the location and type of all plant materials, existing and proposed, and shall include 2 to 3 foot high berms (as measured from the parking lot grade elevation), shrubs designed to fully screen the interior yard and parking areas from public view, and minimum 24" box trees along the street frontage. *Said plans shall be consistent with AB 1881 (Model Water Efficient Landscape Ordinance).*

    NOTE: Staff shall not approve the landscaping and irrigation plan without first reviewing and approving the civil drawings, specifically as it pertains to the landscaping and irrigation plan (i.e., location and size of riprap, bio-swales, areas of infiltration trenches, etc.)

74. The landscaped areas shall be provided with a suitable, fixed, permanent and automatically controlled method for watering and sprinkling of plants. This operating sprinkler system shall consist of an electrical time clock, control valves, and piped water lines terminating in an appropriate number of sprinklers to insure proper watering periods and to provide water for all plants within the landscaped area. Sprinklers used to satisfy the requirements of this section shall be spaced to assure complete coverage of all landscaped areas. *Said plan shall be consistent with AB 1881 (Model Water Efficient Landscape Ordinance).*

75. Upon completion of the landscaping improvements, said landscaped areas shall be maintained in a neat, clean, orderly and healthful condition. This is meant to include proper pruning, mowing of lawns, weeding, removal of litter, fertilizing, and replacement of plants when necessary and the regular watering of all plantings.

76. The electrical plans, which show the location of electrical transformer(s), shall be subject to the approval of the Planning Department. Transformers shall not be located within the front yard setback area. The location of the transformer(s) shall be subject to the prior approval of the Director of Planning or designee. The electrical transformer shall be screened with shrubs consistent with Southern California Edison's Guidelines which requires three foot clearance on sides and back of the equipment, and eight foot clearance in front of the equipment. Additionally, the landscaping irrigation system shall be installed so that they do not spray on equipment. (A copy of the Guideline is available at the Planning Department.)

77. The applicant and/or developer shall not allow commercial vehicles, trucks and/or truck tractors to queue on Telegraph Road or Santa Fe Springs Road, use Telegraph Road or Santa Fe Springs Road as a staging area, or to back-up onto the street from the subject property.

78. All activities shall occur inside the buildings. No portion of the required off-street parking and driveway areas shall be used for outdoor storage of any type or for special-event activities, unless prior written approval is obtained from the Director of Planning, Director of Police Services and the Fire Marshall.

79. All parking stalls shall be legibly marked on the pavement. Additionally, all compact spaces shall be further identified by having the words "Compact" or comparable wording legibly written on the pavement, wheel stop or on a clearly visible sign.

80. The owner/developer shall provide a bulletin board, display case, or kiosk to display transportation information where the greatest number of employees are likely to see it. Information shall include, but is not limited to:
    1. Current maps, routes and schedules for public transit routes serving the site; and
    2. Telephone numbers for referrals on transportation information including numbers for the regional ridesharing agency and local transit operators; and
    3. Ridesharing promotional material supplied by commuter-oriented organizations; and
    4. Bicycle route and facility information, including regional/local bicycle maps and bicycle safety information; and
    5. A listing of facilities available for carpoolers, vanpoolers, bicyclists, transit riders and pedestrians at the site. This is required to both meet the requirements of Section 155.502 (D) of the Zoning Regulations and also a goal identified within the City's General Plan Circulation Element.

81. Preferential parking spaces shall be reserved for potential carpool/vanpool vehicles without displacing handicapped and customer parking needs. Vanpool space(s) shall

be legibly marked on the pavement or identified by a sign and also conveyed to employees through the required transportation information board. The preferential carpool/vanpool parking shall be identified on the site plan at the time of plan check submittal. This is required to both meet the requirements of Section 155.502 (D) of the Zoning Regulations and also a goal identified within the City's General Plan Circulation Element.

82. An area shall be designate for bicycle parking and bicycle racks shall be provided. Bike racks shall be provided to accommodate bicycles at a ratio of 4 bicycles for first 50,000 square feet and 1 bicycle for each additional 50,000 square feet. This is required to both meet the requirements of Section 155.502 (D) of the Zoning Regulations and also a goal identified within the City's General Plan Circulation Element.

83. There shall be a safe and convenient zone in which carpool/vanpool vehicles may deliver or board their passengers. Additionally, there shall be sidewalks or other designated pathways following direct and safe routes from external pedestrian circulation system to each building in the development and safe and convenience access from the external circulation system to bicycle parking facilities on-site. This is required to both meet the requirements of Section 155.502 (D) of the Zoning Regulations and also a goal identified within the City's General Plan Circulation Element.

84. Pursuant to the sign standards of the Zoning Regulations and related sign guidelines of the City of Santa Fe Springs, a comprehensive sign program for the development shall be prepared and submitted to the Director of Planning or designee for approval prior to obtaining a building permit for any signs related to the subject development. All signs throughout the subject site shall be installed in accordance with the approved comprehensive sign program for the subject development.

85. The Department of Planning and Development shall first review and approve all sign proposals for the development. The sign proposal (plan) shall include a site plan, building elevation on which the sign will be located, size, style and color of the proposed sign. All drawings shall be properly dimensioned and drawn to scale on 11" x 17" maximum-size paper. All signs shall be installed in accordance with the sign standards of the Zoning Ordinance and the Sign Guidelines of the City.

86. Prior to issuance of building permits, the owner/developer shall comply with the following conditions to the satisfaction of the City of Santa Fe Springs:
    a. Covenants.
        1. Owner/developer shall provide a written covenant to the Planning Department that, except as owner/developer may have otherwise disclosed to the City, Commission, Planning Commission or their employees, in writing, owner/developer has investigated the environmental condition of the property and does not know, or have reasonable cause to believe, that (a) any crude oil, hazardous substances or hazardous wastes, as defined in state and federal law, have been released, as that term is defined in 42 U.S.C. Section

9601 (22), on, under or about the Property, or that (b) any material has been discharged on, under or about the Property that could affect the quality of ground or surface water on the Property within the meaning of the California Porter-Cologne Water Quality Act, as amended, Water Code Section 13000, et seq

2. Owner/developer shall provide a written covenant to the City that, based on reasonable investigation and inquiry, to the best of owner/developer knowledge, it does not know or have reasonable cause to believe that it is in violation of any notification, remediation or other requirements of any federal, state or local agency having jurisdiction concerning the environmental conditions of the Property.

b. Owner/developer understands and agrees that it is the responsibility of the owner/developer to investigate and remedy, pursuant to applicable federal, state and local law, any and all contamination on or under any land or structure affected by this approval and issuance of related building permits. The City, Commission, Planning Commission or their employees, by this approval and by issuing related building permits, in no way warrants that said land or structures are free from contamination or health hazards.

c. Owner/developer understands and agrees that any representations, actions or approvals by the City, Commission, Planning Commission or their employees do not indicate any representation that regulatory permits, approvals or requirements of any other federal, state or local agency have been obtained or satisfied by the owner/developer and, therefore, the City, Commission, Planning Commission or their employees do not release or waive any obligations the owner/developer may have to obtain all necessary regulatory permits and comply with all other federal, state or other local agency regulatory requirements. Owner/developer, not the City, Commission, Planning Commission or their employees will be responsible for any and all penalties, liabilities, response costs and expenses arising from any failure of the owner/developer to comply with such regulatory requirements.

87. The owner/developer shall require and verify that all contractors and sub-contractors have successfully obtained a Business License with the City of Santa Fe Springs prior to beginning any work associated with the subject project. A late fee and penalty will be accessed to any contractor or sub-contractor that fails to obtain a Business License and a Building Permit final or Certificate of Occupancy will not be issued until all fees and penalties are paid in full. Please contact Cecilia Martinez, Business License Clerk, at (562) 868-0511, extension 7527 for additional information. A business license application can also be downloaded at www.santafesprings.org.

88. The Mitigation Monitoring Program, which was prepared for the proposed project and adopted by the Planning Commission upon completion of the Mitigated Negative Declaration, shall be made part of the conditions of approval for Development Plan Approval Case No. 930, 931, 932 and 933. The Mitigation Monitoring and Reporting Program is listed as an attachment to the staff report.

89. The owner/developer shall implement a dust control program for air quality control. The program shall ensure that a water vehicle for dust control operations is kept readily available at all times during construction. The developer shall provide the City Engineer and Building Official with the name, telephone number and e-mail address of the person directly responsible for dust control and operation of the vehicle.

90. During construction, the following information shall be made available on a sign posted at the main entrance(s) to the site:
    1. Name of the development/project.
    2. Name of the development company.
    3. Address or Address range for the subject site.
    4. 24-hour telephone number where someone can leave a message on a particular complaint (dust, noise, odor, etc.).

91. Prior to occupancy of the property/buildings, the owner/developer and/or his tenant(s), shall obtain a valid business license (AKA Business Operation Tax Certificate), and submit a Statement of Intended Use. Both forms, and other required accompanying forms, may be obtained at City Hall by contacting Cecilia Martinez at (562) 868-0511, extension 7527, or through the City's web site (www.santafesprings.org).

92. The development shall be built substantially in accordance with the plot plan, floor plan, and elevations submitted by the applicant and on file with the case. Any modification shall be subject to the review and approval of the Director of Planning or his/her designee.

93. The final site plan, floor plan and elevations of the proposed development and all other appurtenant improvements, textures and color schemes shall be subject to the final approval of the Director of Planning.

94. The owner/developer understands and agrees that if changes to the original plans (submitted and on file with the subject case) are required during construction, revised plans must be provided to the Planning Department for review and approval prior to the implementation of such changes. Please note that certain changes may also require approvals from other departments.

95. All other requirements of the City's Zoning Regulations, Building Code, Property Maintenance Ordinance, State and City Fire Code and all other applicable County, State and Federal regulations and codes shall be complied with.

96. Unless otherwise specified in the action granting Development Plan Approval, said approval which has not been utilized within a period of 24 consecutive months from the effective date shall become null and void. Also the abandonment or nonuse of a development plan approval and any privileges granted thereunder shall become null and void. However, an extension of time may be granted by Commission or Council action.

97. The applicant and owner/developer agrees to defend, indemnify and hold harmless the City of Santa Fe Springs, its agents, officers and employees from any claim, action or proceeding against the City or its agents, officers or employees to attack, set aside, void or annul an approval of the City or any of its councils, commissions, committees or boards arising from or in any way related to the all entitlements and approvals issued by the City in connection with the Project and from any CEQA challenges relating to the environmental review and determination for the Project, or any actions or operations conducted pursuant thereto. Should the City, its agents, officers or employees receive notice of any such claim, action or proceeding, the City shall promptly notify the applicant of such claim, action or proceeding, and shall cooperate fully in the defense thereof.

98. This approval is not effective until the applicant has completed and signed the signature element appearing at the bottom of the last page of these conditions, and returned the original completed and signed document to the City, confirming the applicant's understanding of these conditions and its willingness to accept and comply with them.

The applicant identified below hereby confirms (1) that it has reviewed and understands each of the foregoing conditions for Development Plan Approval Case Numbers 930-933, and (2) its willingness to accept and comply with them.

_____

Name of Applicant – Print

_____ _____

Signature of Authorized Agent Date

Attachment 5: Approval Letter dated September 18, 2018

CITY OF
SANTA FE SPRINGS
11710 Telegraph Road • CA • 90670-3679 • (562) 868-0511 • Fax (562) 868-7112 • www.santafesprings.org
"A great place to live, work, and play"

September 18, 2018

Breitburn Operating LP
707 Wilshire Blvd. 46th Fl.
Los Angeles, California 90017

Attn.: Mr. Jackson Washburn
Senior Vice President

Re: **Tentative Parcel Map No. 78232**
Development Plan Approval Case Nos. 930, 931, 932, and 933
Northwest corner of Telegraph Road and Santa Fe Springs Road

Dear Mr. Washburn:

The Planning Commission, at their meeting on September 10, 2018, took action on your request for to allow a 44.67-acre site consisting of seven parcels to be subdivided into five parcels and developed with:

DPA 930: a 78,417 sq. ft. building on a 4.28-acre parcel (Building 1);
DPA 931: a 58,463 sq. ft. building on a 3.53-acre parcel (Building 2);
DPA 932: a 121,124 sq. ft. building on a 6.85-acre parcel (Building 3);
DPA 933: a 60,117 sq. ft. building on a 3.23-acre parcel (Building 4);

The remaining 26.77-acre parcel will be reserved for oil extraction operations. The project site is located at the northwest corner of Telegraph Road and Santa Fe Springs Road (APNs 8005-015-011, 8005-015-013, 8005-015-023, 8005-015-024, 8005-015-025, 8005-015-026, and 8005-015-027), within the M-2, Heavy Manufacturing Zone and Telegraph Road Corridor.
**The Building Official has assigned the following addresses: 12451 Telegraph Road (Building 1), 12551 Telegraph Road (Building 2), 10251 Santa Fe Springs Road (Building 3), and 10051 Santa Fe Springs Road (Building 4).*

The Planning Commission approved your requested entitlement subject to the findings and conditions of approval as provided within the attached Resolution 82-2018 and Exhibits A and B.

Jay Sarno, Mayor • Juanita Trujillo, Mayor Pro Tem
City Council
Richard J. Moore • William K. Rounds • Joe Angel Zamora
City Manager
Raymond R. Cruz

The Zoning Ordinance sets forth an appeal period of fourteen (14) days, beginning with the date you receive this letter, during which any party aggrieved by the Commission's action can appeal the matter to the City Council. You are hereby notified that the time within which judicial review must be sought is governed by the provisions of California Code of Civil Procedure, Section 1094.6.

If you have any questions, please contact me at (562) 868-0511 x7354, or E-Mail laurelreimer@santafesprings.org.

Sincerely,

Wayne M. Morrell
Director of Planning

cc: City Council (Electronically)
Ray Cruz, City Manager (Electronically)
Dino Torres, Director of Police Services (Electronically)
Noe Negrete, Director of Public Works (Electronically)
Robert Garcia, Associate Civil Engineer (Electronically)
Redford Bayan, Engineering Tech (Electronically)
Brent Hayward, Fire Chief (Electronically)
Tom Hall, Director of Environmental and Fire Prevention (Electronically)
Richard Kallman, Deputy Fire Marshal (Electronically)
Wayne Morrell, Director of Planning (Electronically)
Teresa Cavallo, Planning Program Assistant (Electronically)
File Copy

CITY OF SANTA FE SPRINGS
RESOLUTION NO. 82-2018

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF SANTA FE SPRINGS REGARDING TENTATIVE PARCEL MAP NO. 78232 & DEVELOPMENT PLAN APPROVAL CASE NO. 930 & DEVELOPMENT PLAN APPROVAL CASE NO. 931 & DEVELOPMENT PLAN APPROVAL CASE NO. 932 & DEVELOPMENT PLAN APPROVAL CASE NO. 933

WHEREAS, a request was filed for Tentative Parcel Map No. 78232 to allow an approximately 44.67-acre site to be subdivided into five (5) parcels measuring 186,493 sq. ft. (Parcel 1), 153,827 sq. ft. (Parcel 2), 298,474 sq. ft. (Parcel 3), 140,791 sq. ft. (Parcel 4), and 1,166,135 sq. ft. (Parcel 5) in the M-2, Heavy Manufacturing, Zone and Telegraph Road Corridor; and

WHEREAS, a request was filed for Development Plan Approval Case No. 930 to allow the construction of a 78,417 sq. ft. concrete tilt-up building (Building 1) on property located within the M-2, Heavy Manufacturing, Zone and Telegraph Road Corridor; and

WHEREAS, a request was filed for Development Plan Approval Case No. 931 to allow the construction of a 58,463 sq. ft. concrete tilt-up building (Building 2) on property located within the M-2, Heavy Manufacturing, Zone and Telegraph Road Corridor; and

WHEREAS, a request was filed for Development Plan Approval Case No. 932 to allow the construction of a 121,124 sq. ft. concrete tilt-up building (Building 3) on property located within the M-2, Heavy Manufacturing, Zone and Telegraph Road Corridor; and

WHEREAS, a request was filed for Development Plan Approval Case No. 933 to allow the construction of a 60,117 sq. ft. concrete tilt-up building (Building 4) on property located within the M-2, Heavy Manufacturing, Zone and Telegraph Road Corridor; and

WHEREAS, the subject property is located at the northwest corner of Telegraph Road and Santa Fe Springs Road, with Accessor's Parcel Numbers of 8005-015-011, 8005-015-013, 8005-015-023, 8005-015-024, 8005-015-025, 8005-015-026, and 8005-015-027, as shown in the latest rolls of the Los Angeles County Office of the Assessor; and

WHEREAS, the property owner is Breitburn Operating L.P., 7087 Wilshire Boulevard, 46ths Floor, Los Angeles, CA 90017; and

WHEREAS, the proposed Tentative Parcel Map No. 78232 and Development Plan Approval Case Numbers 930 – 933 are considered a project as defined by the California Environmental Quality Act (CEQA), Article 20, Section 15378(a); and

WHEREAS, based on the information received from the applicant and staff's assessment, it was found and determined that the proposed project will not have a significant adverse effect on the environmental following mitigation, therefore, the City caused to be prepared and proposed to adopt an Initial Study/Mitigated Negative Declaration (IS/MND) for the proposed project; and

WHEREAS, the City of Santa Fe Springs Planning and Development Department on June 27, 2018 published a legal notice in the *Whitter Daily News,* a local paper of general circulation, indicating the date and time of the public hearing, and also mailed said public hearing notice on June 27, 2018 to each property owner within a 500 foot radius of the project site in accordance with state law; and

WHEREAS, the City of Santa Fe Springs Planning Commission has considered the application, the written and oral staff report, the General Plan and zoning of the subject property, the testimony, written comments, or other materials presented at the Planning Commission Meeting on July 9, 2018 concerning Tentative Parcel Map No. 78232 and Development Plan Approval Case Nos. 930 - 933.

NOW, THEREFORE, be it RESOLVED that the PLANNING COMMISSION of the CITY OF SANTA FE SPRINGS does hereby RESOLVE, DETERMINE and ORDER AS FOLLOWS:

SECTION I. ENVIRONMENTAL FINDINGS AND DETERMINATION

The proposed development is considered a project under the California Environmental Quality Act (CEQA) and as a result, the project is subject to the City's environmental review process. The environmental analysis provided in the Initial Study indicated that the proposed project will not result in any significant adverse immitigable impacts to the environment, therefore, the City required the preparation and adoption of a Mitigated Negative Declaration (MND) for the proposed Project. The MND reflects the independent judgment of the City of Santa Fe Springs, and the environmental consultant, Blodgett/Baylosis Environmental Planning.

The Initial Study determined that the proposed project is not expected to have any significant adverse environmental impacts. The following findings can be made regarding the Mandatory Findings of Significance set forth in Section 15065 of the CEQA Guidelines based on the results of this Initial Study:

- The proposed project *will not* have the potential to degrade the quality of the environment.
- The proposed project *will not* have the potential to achieve short-term goals to the disadvantage of long-term environmental goals.
- The proposed project *will not* have impacts that are individually limited, but cumulatively considerable, when considering planned or proposed development in the immediate vicinity.
- The proposed project *will not* have environmental effects that will adversely affect humans, either directly or indirectly.

In addition, pursuant to Section 21081(a) of the Public Resources Code, findings must be adopted by the decision-maker coincidental to the approval of a Mitigated Negative Declaration, which relates to the Mitigation Monitoring Program. These findings shall be incorporated as part of the decision-maker's findings of fact, in response to AB-3180 and in compliance with the requirements of the Public Resources Code. In accordance with the requirements of Section 21081(a) and 21081.6 of the Public Resources Code, the City of Santa Fe Springs can make the following additional findings:

- A mitigation reporting or monitoring program will be required; and,
- An accountable enforcement agency or monitoring agency shall be identified for the mitigation measures adopted as part of the decision-maker's final determination.

A number of mitigation measures have been recommended as a means to reduce or eliminate potential adverse environmental impacts to insignificant levels. AB-3180 requires that a monitoring and reporting program be adopted for the recommended mitigation measures.

SECTION II. TENTATIVE PARCEL MAP FINDINGS

Pursuant to Section 154.07 of the Municipal Code, a tentative map shall not be approved unless the Planning Commission finds that the proposed subdivision, together with the provisions for its design and improvements, is consistent with the general plan as required by Section 66473.5 of the Subdivision Map Act. Additionally, the Planning Commission shall deny a tentative map if it makes any of the findings set forth in Sections 66474 and 66474.6 of the Subdivision Map Act.

A) *Section 66473.5 and Sections 66474(a) and (b) of the Subdivision Map Act require tentative maps to be consistent with the general plan and specific plans. The proposed Tentative Parcel Map, subject to the attached conditions, is in accordance with the Subdivision Map Act in that:*

Approval of the proposed Parcel Map would promote a number of specific General Plan Goals and Policies as described in the table below:

General Plan Consistency Analysis

General Plan Element	***Policy***	**Project Consistency**
	Goal 5: Provide an environment to stimulate local employment, community spirit, property values, community stability, the tax base, and the viability of local business.	The map will facilitate the development of four Class A buildings, which are expected to provide more jobs and generate a higher property tax than currently collected for the oil field.

Land Use	**Goal 9:** Provide for growth and diversification of industry and industrial related activities within the Santa Fe Springs industrial area.	The consolidation of several small parcels into five (5) parcels will provide industrial and commercial use that provide a more viable development opportunity of the subject site.
	Policy 9.1: Consideration of providing an adequate tax base from property tax or sales tax income.	The project will construct four Class A buildings, which are expected to generate higher property taxes than currently collected for the oil field.
	Policy 9.4: Encourage the grouping of adjoining small or odd shaped parcels in order to create more viable development.	The consolidation of several small parcels, some of which are landlocked and unable to be developed, and subdivision into five (5) viable parcels will provide for industrial and commercial uses that provide a more viable development opportunity of the subject site.
	Goal 11: Support and encourage the viability of the industrial and commercial areas of Santa Fe Springs.	The consolidation and subdivision of the existing lots enables the site to be developed into an industrial business park.

The proposed parcel map, subject to the attached conditions, is compatible with the goals and objectives of the various elements of the City of Santa Fe Springs General Plan, and therefore, is in compliance with Government Code Sections 66473.5, and 66474(a) and (b).

B) *Sections 66474(c) and (d) of the Subdivision Map Act require the site to be physically suitable for the type of development and proposed density of development.*

In addition to the proposed parcel map, the applicant is concurrently seeking approval to allow for the construction of four Class A industrial buildings on parcels 1, 2, 3, and 4. Parcel 5 will continue to be utilized for oil extraction operations. The existing zoning permits warehouse uses and oil and gas drilling for properties within the M-2, Heavy Manufacturing, zone. All public streets and utility services necessary and sufficient for the full use, occupancy, and operation of the future industrial business park, including water, storm drain(s), sanitary sewer, gas, electric, cable and telephone facilities, are readably available.

C) *Sections 66474(e) and (f) of the Subdivision Map Act require that the design of the subdivision or the proposed improvements are not likely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat or is likely to cause serious public health concerns.*

The project site is not located in a sensitive environment, but rather in a fully urbanized area surrounded by various land uses. None of the parcels, pre and

post subdivision, contain any riparian habitats, wetland habitats, and are not utilized for movement of any known native wildlife species of migratory fish or wildlife species; consequently, the design of the subdivision is unlikely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat. Additionally, as required by the California Environmental Quality Act (CEQA), an Initial Study (IS)/Mitigated Negative Declaration (MND) was prepared for the proposed apartment project. According to the IS/MND, the project is not expected to have any impacts on biological resources or cause serious public health problems.

D) *Section 66474(g) of the Subdivision Map Act requires that the design of the subdivision or the type of improvements will not conflict with easements, acquired by the public at large, for access through or use of, property within the proposed subdivision.*

New easements for utility or roadways, if necessary, will be provided prior to final map approval. Two right-turn lanes are anticipated to be recorded on the final map.

E) *In accordance with Government Code Section 66474.6, it has been determined that the discharge of waste from the proposed subdivision, subject to the attached conditions, into the existing sewer system will not result in a violation of the requirements prescribed by the Regional Water Quality Control Board in that the developer is required to comply with the IS/MND Mitigation Monitoring and Reporting Program, submit an erosion control plan and comply with the NPDES Best Management Practices during the grading and construction phases of the project.*

The project will meet all state and local ordinances and requirements including the California Regional Water Quality Control Board.

F) *That the proposed subdivision shall be in accordance with Government Code Section 66473.1, entitled "Design of Subdivisions to provide for Future Passive or Natural Heating and Cooling Opportunities."*

Future Passive or Natural Heating and Cooling Opportunities will be incorporated with the proposed developments. To the extent feasible, staff will review the proposed developments to ensure that energy-saving devices or materials, including, but not limited to, insulation, double-pane windows, and high efficiency central heating and cooling systems will be incorporated.

SECTION III. DEVELOPMENT PLAN APPROVAL FINDINGS

Pursuant to Section 155.739 of the City of Santa Fe Springs Zoning Regulations, the Planning Commission shall consider the following findings in their review and

determination of the subject Development Plan Approval. Based on the available information, the City of Santa Fe Springs Planning Commission hereby make the following findings:

(A) *That the proposed development is in conformance with the overall objectives of this chapter.*

The proposed project is located within the M-2, Heavy Manufacturing, Zone. Pursuant to Section 155.240 of the Zoning Regulations, "The purpose of the M-2 Zone is to preserve the lands of the city appropriate for heavy industrial uses, to protect these lands from intrusion by dwellings and inharmonious commercial uses, to promote uniform and orderly industrial development, to create and protect property values, to foster an efficient, wholesome and aesthetically pleasant industrial district, to attract and encourage the location of desirable industrial plants, to provide an industrial environment which will be conducive to good employee relations and pride on the part of all citizens of the community and to provide proper safeguards and appropriate transition for surrounding land uses."

The proposed project is consistent with the purpose of the M-2 Zone in the following manner:

1. The land is appropriate for industrial uses based on its zoning, M-2, Heavy Manufacturing and its General Plan Land Use designation of Industrial.
2. The proposed project is and industrial business park, therefore the land is being maintained for industrial uses.
3. The project involves the construction of a new and attractive industrial business park on a site that is currently utilized for oil extraction operations. The assessed value of the property will significantly improve after the project, thus leading to an increase in property values for both the subject property and neighboring properties.
4. The proposed project complies with all development standards set forth in the M-2 Zone.

(B) *That the architectural design of the proposed structures is such that it will enhance the general appearance of the area and be in harmony with the intent of this chapter.*

The subject parcel has been utilized for oil extraction operations for many decades. The proposed project will be a significant improvement to the subject site. The architect used multiple variations in height, setback, materials and color. The result is an attractive project with contemporary buildings that is comparable to other high quality office/industrial projects here in Santa Fe Springs. In addition, the project meets or exceeds all requirements of the City's Zoning Regulations. The project's overall compliance validates that it is in harmony with the overall intent of the City's Zoning Regulations.

(C) *That the proposed structures be considered on the basis of their suitability for their intended purpose and on the appropriate use of materials and on the principles of proportion and harmony of the various elements of the buildings or structures.*

The proposed buildings are well-designed and should be highly suitable for a variety of office, manufacturing or warehouse-type users. The design of the industrial business park provides quality architectural design, as demonstrated by glazing, pop-outs, and variations in height, materials, and color. These architectural design elements break up the mass of the buildings, and present an attractive, distinctive façade to visitors. As designed, the new buildings are suitable for their intended users, and the distinctive design of the buildings represents the architectural principles of proportion and harmony. In addition, the buildings are designed with similar architectural features in order to create harmony and consistency throughout the development.

(D) *That consideration be given to landscaping, fencing and other elements of the proposed development to ensure that the entire development is in harmony with the objectives of this chapter.*

Extensive consideration has been given to numerous elements of the proposed project to achieve harmony with the City's Zoning Regulations. As proposed, the project meets or exceeds all development standards set for in the City's zoning regulations and the project does not require any modification permits and/or zone variances. Landscaping helps to soften building mass and parking areas, loading doors and potential trucking activities are screened by the orientation of buildings, and meandering sidewalks throughout the site frontage provide a safe and attractive pedestrian pathway.

(E) *That it is not the intent of this subchapter to require any particular style or type of architecture other than that necessary to harmonize with the general area.*

As stated previously, the proposed buildings are contemporary in design. The architect used variations in the provide setback, materials and color. The style and architecture of the proposed building is consistent with other high quality buildings in the general area.

(F) *That it is not the intent of this subchapter to interfere with architectural design except to the extent necessary to achieve the overall objectives of this chapter.*

Pursuant to Section 155.736 of the Zoning Regulations "The purpose of the development plan approval is to assure compliance with the provisions of this chapter and to give proper attention to the sitting of new structures or additions or alterations to existing structures, particularly in regard to unsightly and undesirable appearance, which would have an adverse effect on surrounding properties and

the community in general." The Planning Commission finds that the new buildings will be an enhancement to the overall area. The Planning Commission believes that proper attention has been given to the location, size, and design of the proposed buildings.

SECTION IV. PLANNING COMMISSION ACTION

The Planning Commission hereby adopts Resolution No. 82-2018 to approve Tentative Parcel Map No. 78232 to allow an approximately 44.67-acre site to be subdivided into five (5) parcels measuring 186,493 sq. ft. (Parcel 1), 153,827 sq. ft. (Parcel 2), 298,474 sq. ft. (Parcel 3), 140,791 sq. ft. (Parcel 4), and 1,166,135 sq. ft. (Parcel 5); to approve Development Plan Approval Case No. 930 to allow the construction of a 78,417 sq. ft. concrete tilt-up building (Building 1); to approve Development Plan Approval Case No. 931 to allow the construction of a 58,463 sq. ft. concrete tilt-up building (Building 2); to approve Development Plan Approval Case No. 932 to allow the construction of a 121,124 sq. ft. concrete tilt-up building (Building 3); to approve Development Plan Approval Case No. 933 to allow the construction of a 60,117 sq. ft. concrete tilt-up building (Building 4); and to approve and adopt the proposed Initial Study/Mitigated Negative Declaration, and Mitigation Monitoring and Reporting Program (IS/MND/MMRP), subject to conditions attached hereto as Exhibit A and Exhibit B.

ADOPTED and APPROVED this 10th day of September, 2018 BY THE PLANNING COMMISSION OF THE CITY OF SANTA FE SPRINGS.

Ralph Aranda, Chairperson

ATTEST:

Teresa Cavallo, Planning Secretary

Exhibit A
CONDITIONS OF APPROVAL FOR TPM 78232:

ENGINEERING / PUBLIC WORKS DEPARTMENT:
(Contact: Robert Garcia 562-868-0511 x7545)

1. Final parcel map checking of $4,824 plus $285 per parcel shall be paid to the City. Developer shall comply with Los Angeles County's Digital Subdivision Ordinance (DSO) and submit final maps to the City and County in digital format.

2. The applicant shall provide at no cost to the City, one mylar print of the recorded parcel map from the County of Los Angeles Department of Public Works, P.O. Box 1460, Alhambra, CA 91802-1460, Attention: Bill Slenniken (626) 458-5131.

3. A reciprocal access easement Agreement covering each parcel of the subject map shall be prepared, executed and recorded in the Office of the Los Angeles County Recorder. Such Agreement and any CC&R's shall be subject to the approval of the City Attorney.

PLANNING AND DEVELOPMENT DEPARTMENT:
(Contact: Laurel Reimer 562.868-0511 x7354)

4. Provisions shall be made for appropriate television systems and for communication systems, including, but not limited to, telephone and internet services. Appropriate cable television systems, as used, means those franchised or licensed to serve the geographical area in which the subdivision is located.

5. The Final Map to be recorded with the Los Angeles County Recorder shall substantially conform to the Tentative Parcel Map submitted by the applicant and on file with the case.

6. Currently, the County of Los Angeles Department of Public Works is utilizing a computerized system to update and digitize the countywide land use base. If the parcel map is prepared using a computerized drafting system, the applicant or their civil engineer shall submit a map in digital graphic format with the final Mylar map to the County of Los Angeles Department of Public Works for recordation and to the City of Santa Fe Springs Department of Public Works for incorporation into its GIS land use map. The City of Santa Fe Springs GIS Coordinate System shall be used for the digital file.

7. Tentative Parcel Map No. 78232 shall expire 24 months after Planning Commission approval, on September 10, 2020, except as provided under the provisions of California Government Code Section 66452.6. During this time period the final map shall be presented to the City of Santa Fe Springs for approval. The subdivision proposed by Tentative Parcel Map No. 78232 shall not be effective until such time that a final map is recorded.

8. The "Subdivider," Breitburn Operating L.P., agrees to defend, indemnify and hold harmless the City of Santa Fe Springs, its agents, officers and employees from any claim, action or proceeding against the City or its agents, officers or employees to attack, set aside, void or annul an approval of the City or any of its councils, commissions, committees or boards concerning the subdivision when action is brought within the time period provided for in Government Code, Section 66499.37. Should the City, its agents, officers or employees receive notice of any such claim, action or proceeding, the City shall promptly notify subdivider of such claim, action or proceeding and shall cooperate fully in the defense thereof.

9. This approval is not effective until the applicant has completed and signed the signature element appearing at the bottom of the last page of these conditions, and returned the original completed and signed document to the City, confirming the applicant's understanding of these conditions and its willingness to accept and comply with them.

The applicant identified below hereby confirms (1) that it has reviewed and understands each of the foregoing conditions for Tentative Parcel Map 78232, and (2) its willingness to accept and comply with them.

_____
Name of Applicant – Print

_____ _____
Signature of Authorized Agent Date

Exhibit B:
CONDITIONS OF APPROVAL FOR DPAs 930-933:

ENGINEERING / PUBLIC WORKS DEPARTMENT:
(Contact: Robert Garcia 562.868-0511 x7545)

STREETS

1. Prior to the issuance of building permits, the applicant and/or developer shall pay a flat fee of $203,715 to reconstruct/resurface the existing street frontage to centerline for Telegraph Road & Santa Fe Springs Road.

2. Prior to the issuance of building permits, the applicant and/or developer shall pay a flat fee of $5,000 for the upgrade and installation of an Emergency Vehicle Preemption System (OPTICOM) at the intersection of Telegraph Road and Santa Fe Springs Road as determined by the City Engineer and Fire Chief.

3. The applicant/or developer shall design and construct a 5-foot wide meandering sidewalk per City standards and dedicate an easement along the Telegraph Road & Santa Fe Springs Road street frontage. The dedicated easement shall be shown on the Parcel Map. Furthermore, said meandering sidewalk shall be shown on both the civil and landscape plans.

4. The applicant and/or developer shall design and construct/modify one (1) existing raised Median Island on Santa Fe Springs Road to accommodate left turns into the northernmost proposed driveway.

5. Prior to the issuance of building permits, the applicant and/or developer shall pay the costs associated with the furnishing and installation of traffic signal modifications; including protected Northbound/Southbound left turn traffic signal phasing at the intersection of Telegraph Road and Santa Fe Springs Road. The cost estimate for the modifications (add left turn phasing) at the Telegraph/Bloomfield signal is $191,000.

6. Full street improvements shall be constructed to the City standards in accordance with plans prepared by the applicant and/or developer and approved by the City Engineer. Street to be improved shall include Telegraph Road & Santa Fe Springs Road for the purpose of installing Right turn pockets. A soils report shall be prepared and submitted as directed by the City Engineer to determine proposed street structural section.

7. Street right-of-way easements shall be dedicated as follows:
    a) Along the north side of Telegraph Road for the construction of a right turn pocket.
    b) Along the west side of Santa Fe Springs Road for the construction of a right turn pocket.

8. All above ground oil wells, pipelines, tanks, and related lines within the public right-of-way shall be removed from the right-of-way unless otherwise approved by the City Engineer.

9. Adequate "on-site" parking shall be provided per City requirements, and all streets abutting the development shall be posted "No Stopping Any Time." The City will install the offsite signs and the applicant and/or developer shall pay $ 3,000.00 to install (15) new signs.

10. The applicant and/or developer shall be responsible for the installation, replacement or modification of street name signs, traffic control signs, striping and pavement markings required in conjunction with the development. The applicant and/or developer shall be responsible for coordination of said work, as well as all associated fees, permits, materials, etc.

11. Proposed driveways shall be located to clear existing fire hydrants, street lights, water meters, etc.

CITY UTILITIES

12. Storm drains, catch basins, connector pipes, retention basin and appurtenances built for this project shall be constructed in accordance with City specifications in Telegraph Road & Santa Fe Springs Road. Storm drain plans shall be approved by the City Engineer.

13. Fire hydrants shall be installed as required by the Fire Department. Existing public fire hydrants adjacent to the site, if any, shall be upgraded if required by the City Engineer. The applicant and/or developer shall pay to the City the entire cost of design, engineering, installation and inspection of Fire hydrants.

14. Sanitary sewers shall be constructed in accordance with City specifications to serve the subject development. The plans for the sanitary sewers shall be approved by the City Engineer. A sewer study (including a sewer flow test) shall be submitted along with the sanitary sewer plans.

15. All buildings shall be connected to the sanitary sewers.

16. The fire sprinkler plans, which show the proposed double-check valve detector assembly location, shall have a stamp approval from the Planning Department and Public Works Department prior to the Fire Department's review for approval. Disinfection, pressure and bacteriological testing on the line between the street and detector assembly shall be performed in the presence of personnel from the City Water Department. The valve on the water main line shall be operated only by the City and only upon the City's approval of the test results.

17. The applicant and/or developer shall obtain a Storm Drain Connection Permit for any connection to the storm drain system.

18. The applicant and/or developer shall have an overall site utility master plan prepared by a Registered Civil Engineer showing the proposed location of all public water mains, reclaimed water mains, sanitary sewers and storm drains. This plan shall be approved by the City Engineer prior to the preparation of any construction plans for the aforementioned improvements.

TRAFFIC

19. All points of access to the proposed development have been reviewed and approved by the City Engineer. Left turns will only be allowed into the proposed development from the most northerly driveway on Santa Fe Springs Road. Left turns out of the proposed development will be allowed from both northerly and southerly driveways on Santa Fe Springs Road.

FEES

20. The applicant and/or developer shall comply with Congestion Management Program (CMP) requirements and provide mitigation of trips generated by the development. The applicant and/or developer will receive credit for the demolition of any buildings that formerly occupied the site. For new developments, if the applicant and/or developer cannot meet the mitigation requirements, the applicant and/or developer shall pay a mitigation fee to be determined by the City Engineer for off-site transportation improvements. This mitigation fee shall be paid prior to issuance of building permits.

21. The applicant and/or developer shall comply with all requirements of the County Sanitation District, make application for and pay the sewer maintenance fee.

22. The applicant and/or developer shall pay the water trunkline connection fee of $3,700 per acre upon application for water service connection or if utilizing any existing water service.

MISCELLANEOUS

23. A grading plan shall be submitted for drainage approval to the City Engineer. The applicant and/or developer shall pay drainage review fees in conjunction with this submittal. A professional civil engineer registered in the State of California shall prepare the grading plan.

24. A hydrology study shall be submitted to the City if requested by the City Engineer. The study shall be prepared by a Professional Civil Engineer.

25. Upon completion of public improvements constructed by developers, the developer's civil engineer shall submit mylar record drawings and an electronic file (AutoCAD Version 2004 or higher) to the office of the City Engineer.

26. The applicant and/or developer shall comply with the National Pollutant Discharge Elimination System (NPDES) program and shall require the general contractor to implement storm water/urban runoff pollution prevention controls and Best Management Practices (BMPs) on all construction sites in accordance with the current MS4 Permit. The applicant and/ or developer will also be required to submit a Certification for the project and will be required to prepare a Storm Water Pollution Prevention Plan (SWPPP) and Low Impact Development Plan (LID).

POLICE SERVICES DEPARTMENT:
(Contact: Lou Collazo 562.868-0511 x3320)

27. The applicant and/or developer shall submit and obtain approval of a proposed lighting (photometric) plan for the property from the City's Department of Police Services. The photometric plan shall be designed to provide adequate lighting (minimum of 1 foot candle power) throughout the subject property. Further, all exterior lighting shall be designed/installed in such a manner that light and glare are not transmitted onto adjoining properties in such concentration/quantity as to create a hardship to adjoining property owners or a public nuisance. The photometric plans shall be submitted to the Director of Police Services prior to building permit issuance.

28. The developer shall provide an emergency phone number and a contact person of the person or persons involved in the supervision of the construction to the Department of Police Services. The name, telephone number, fax number and e-mail address of that person shall be provided to the Director of Police Services no later than 60 days from the date of approval by the Planning Commission. Emergency information shall allow emergency service to reach the developer or their representative any time, 24 hours a day.

29. In order to facilitate the removal of unauthorized vehicles parked on the property, the developer shall post, in plain view and at each entry to the property, a sign not less than 17" wide by 22" long. The sign shall prohibit the public parking of unauthorized vehicles and indicate that unauthorized vehicles will be removed at the owner's expense and also contain the California Vehicle Code that permits this action. The sign shall also contain the telephone number of the local law enforcement agency (Police Services Center (562) 409-1850). The lettering within the sign shall not be less than one inch in height. The developer shall contact the Police Services Center for an inspection no later than 30 days after the project has been completed and prior to the occupancy permit being issued.

30. All work shall be conducted inside at all times including, but not limited to, all loading and unloading of trailers. Items shall not be left out awaiting loading.

31. Off-street parking areas shall not be reduced or encroached upon by outdoor storage and/or for the placement of merchandize.

32. All new businesses fronting on Telegraph Road shall be aware that they are subject strict noise levels pursuant to Section 155.424 (E).

33. The proposed buildings, including any lighting, fences, walls, cabinets, and poles shall be maintained in good repair, free from trash, debris, litter and graffiti and other forms of vandalism. Any damage from any cause shall be repaired within 72 hours of occurrence, weather permitting, to minimize occurrences of dangerous conditions or visual blight. Paint utilized in covering graffiti shall be a color that matches, as closely possible, the color of the existing and/or adjacent surfaces.

34. During the construction phase of the proposed project, the contractor shall provide an identification number (i.e. address number) at each building and/or entry gate to direct emergency vehicles in case of an emergency. The identification numbers may be painted on boards and fastened to the temporary construction fence. The boards may be removed after each building has been identified with their individual permanent number address.

35. It shall be the responsibility of the job-supervisor to maintain the job site in a clean and orderly manner. Dirt and debris that has migrated to the street or neighboring properties shall be immediately cleaned.

36. During construction, out-houses, porta potties, or the like, shall not be visible from the public street and shall be maintained on a regular basis.

DEPARTMENT OF FIRE - RESCUE (FIRE PREVENTION DIVISION):
(Contact: Richard Kallman 562.868-0511 x3710)

37. All buildings over 5,000 sq. ft. shall be protected by an approved automatic sprinkler system per Section 93.11 of the Santa Fe Springs Municipal Code.

38. The applicant and/or developer shall comply with the requirements of Section 117.131 of the Santa Fe Springs Municipal Code, Requirement for a Soil Gas Study, in accordance with Ordinance No. 955, prior to issuance of building permits.

39. When applicable, abandoned oil wells must be exposed and inspected under the oversight of a registered engineer or geologist. The wells must be monitored for methane leaks and the precise location of each abandoned well shall be surveyed. A report of findings along with a description of any recommended remedial actions needed to comply with the Division of Oil, Gas, and Geothermal Resources, signed by a registered engineer or geologist, must be provided to the Fire Department.

40. A methane gas protection system designed in accordance with the standards established by the County of Los Angeles shall be required for all habitable structures. Plans for the proposed methane gas protection system shall be submitted to the Department of Fire-Rescue prior to construction. An alternative to the County of Los Angeles standards may be acceptable if approved by the Department of Fire-Rescue.

41. Interior gates or fences are not permitted across required Fire Department access roadways unless otherwise granted prior approval by the City Fire Department.

42. If on-site fire hydrants are required by the Fire Department, a minimum flow must be in accordance with Appendix B from the current Fire Code flowing from the most remote hydrant. In addition, on-site hydrants must have current testing, inspection and maintenance per California Title 19 and NFPA 25.

43. The standard aisle width for onsite emergency vehicle maneuvering shall be 26 feet with a minimum clear height of 13 feet 6 inches. Internal driveways shall have a turning radius of not less than 52 feet. The final location and design of this 26 feet shall be subject to the approval of the City's Fire Chief as established by the Uniform Fire Code. A request to provide emergency vehicle aisle width less than 26 feet shall be considered upon the installation/provision of mitigation improvements approved by the City's Fire Chief.

44. Prior to submitting plans to the Building Department, a preliminary site plan shall be approved by the Fire Department for required access roadways and on-site fire hydrant locations. The site plan shall be drawn at a scale between 20 to 40 feet per inch. Include on plan all entrance gates that will be installed.

45. Knox boxes are required on all new construction. All entry gates shall also be equipped with Knox boxes or Knox key switches for power-activated gates.

46. Signs and markings required by the Fire Department shall be installed along the required Fire Department access roadways.

47. The applicant and/or developer shall apply for a permit with the Department of Fire-Rescue and comply with the requirements of Section 117.127 of the Santa Fe Springs Municipal Code, Criteria for Abandonment, prior to abandoning or re-abandoning any oil wells on-site.

48. A system for venting of abandoned oil wells over which there will be construction, in accordance with Section 117.130 of the Santa Fe Springs Municipal Code, shall be required. Plans for the venting system shall be submitted to the Department of Fire-Rescue prior to construction.

DEPARTMENT OF FIRE - RESCUE (ENVIRONMENTAL DIVISION):
(Contact: Tom Hall 562.868-0511 x3715)

49. Permits and approvals. The applicant and/or developer shall, at its own expense, secure or cause to be secured any and all permits or other approvals which may be required by the City and any other governmental agency prior to conducting environmental assessment or remediation on the property. Permits shall be secured prior to beginning work related to the permitted activity.

50. The applicant and/or developer shall submit plumbing plans to the Santa Fe Springs Department of Fire-Rescue Environmental Protection Division (EPD) and, if necessary, obtain an Industrial Wastewater Discharge Permit Application for generating, storing, treating or discharging any industrial wastewater to the sanitary sewer.

51. The applicant and/or developer shall provide a sampling plan to the Department of Fire-Rescue for active oil wells that will be abandoned prior to site development.

WASTE MANAGEMENT:
(Contact: Teresa Cavallo 562.868.0511 x7309)

52. The developer shall comply with Section 50.51 of the Municipal Code which prohibits any business or residents from contracting any solid waste disposal company that does not hold a current permit from the City.

53. All projects over $50,000 are subject to the requirements of Ordinance No. 914 to reuse or recycle 75% of the project waste. Contact the Environmental Consultant, Morgan McCarthy at (562) 432-3700 or (805) 815-2492.

54. The developer shall comply with Public Resource Code, Section 42900 et seq. (California Solid Waste Reuse and Recycling Access Act of 1991) as amended, which requires each development project to provide adequate storage area for the collection/storage and removal of recyclable and green waste materials.

PLANNING AND DEVELOPMENT DEPARTMENT:
(Contact: Laurel Reimer 562.868-0511 x7354)

55. Approval of Development Plan Approval Case Numbers 930, 931, 932 and 933 is contingent upon approval of Tentative Parcel Map Case No. 78232.

56. The owner/developer shall comply with the City's "Heritage Artwork in Public Places Program" in conformance with City Ordinance No. 1054.

57. The owner/developer shall be responsible for reviewing and/or providing copies of the required conditions of approval to his/her architect, engineer, contractor, tenants, etc. Additionally, the conditions of approval contained herein shall be made part of the construction drawings for the proposed development. *Construction drawings shall not be accepted for Plan Check without the conditions of approval incorporated into the construction drawings.*

58. The owner/developer shall indicated on the first page of the construction drawings that the subject property is located within the methane zone. Said indication shall be clearly printed with a minimum 12 point font size.

59. The owner/developer shall apply for a Well Review Report (report) through the Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR). A copy of this report shall be provide to the Planning Department. If historic oil wells are identified on-site, well abandoned to current DOGGR standards may be required before a building permit can be issued.

60. The owner/developer shall apply for an Oilfield Site Plan Review through the Planning Department prior to issuance of a building permit.

61. To prevent the travel of combustible methane gas into any structure, all slab or foundation penetrations, including plumbing, communication and electrical penetrations, must be sealed with an appropriate material. In addition, underground electrical conduits penetrating the slab or foundation of the structure, shall comply with the National Electrical Code (NEC), replete with a seal-off device normally required for classified electrical installations, so as to prevent the travel of combustible methane gas into the structure through conduit runs. *Refer to California Electrical Code, Chapter 5, Sections 500 and 501.*

62. The owner/developer shall submit Mechanical plans that include a roof plan that shows the location of all roof mounted equipment. All roof-mounted mechanical equipment and/or duct work which projects above the roof or roof parapet of the proposed development and is visible from adjacent property or a public street shall be screened by an enclosure which is consistent with the architecture of the building and approved by the Director of Planning or designee.
    a. To illustrate the visibility of equipment and/or duct work, the following shall be submitted along with the Mechanical Plans:
        i. A roof plan showing the location of all roof-mounted equipment;
        ii. Elevations of all existing and proposed mechanical equipment; and
        iii. A line-of-sight drawing or a building cross-section drawing which shows the roof-mounted equipment and its relation to the roof and parapet lines.

    NOTE: line-of sight drawing and/or building cross section must be scaled.

63. The owner/developer shall submit a lighting program that is integrated into the overall site, landscape design and building design. Lighting shall be used to highlight prominent building features such as entries and other focal points. Up-lighting can also be used as a way to enhance the texture of plants and structures, to create a sense of height in a landscape design.

64. The owner/developer agrees and understands that any existing overhead utilities within the development shall be placed underground.

65. All fences, walls, gates and similar improvements for the proposed development shall be subject to the prior approval of the Fire Department and the Department of Planning and Development.

66. All approved outdoor trash enclosures shall be provided for the development subject to the approval of the Director of Planning or designee. The calculation to determine the required storage area shall be determine by the City Building Department.

67. All outdoor trash enclosures shall provide a solid roof cover.

68. All street-facing roof drains shall be provided along the interior walls and not along the exterior of the building.

69. The proposed development shall be constructed of quality material and any material shall be replaced when and if the material becomes deteriorated, warped, discolored or rusted.

70. Approved suite numbers/letters or address numbers shall be placed on the proposed building in such a position as to be plainly visible and legible from the street fronting the property. Said numbers shall contrast with their background. The size recommendation shall be 12" minimum.

71. The owner/developer shall submit a mailbox plan (locations and sizes) for all parcels prior to the issuance of building permits. The plan shall be approved by the Santa Fe Springs Post Office. The owner/developer shall submit to the City a written confirmation from the Santa Fe Springs Post Office that the mailbox locations are approved. The City shall review and approve the location plan to ensure adequate site distance and traffic safety measures are incorporated.

72. The Department of Planning and Development requires that the double-check detector assembly be placed as far back from the property line as practical, screened by shrubs or other materials, and painted forest green. All shrubs shall be planted a minimum distance of two (2) feet surrounding the detector assembly; however, the area in front of the OS and Y valves shall not be screened. The screening shall also only be applicable to the double-check detector assembly and shall not include the fire department connector (FDC). Notwithstanding, the Fire Marshall shall have discretionary authority to require the FDC to be located a minimum distance from the double-check detector assembly. The bottom of the valve shut off wheel shall be located a maximum of two (2) feet above ground.

73. Owner/developer shall submit for approval a detailed landscape and automatic irrigation plan pursuant to the Landscaping Guidelines of the City. Said landscape plan shall indicate the location and type of all plant materials, existing and proposed, and shall include 2 to 3 foot high berms (as measured from the parking lot grade elevation), shrubs designed to fully screen the interior yard and parking areas from public view, and minimum 24" box trees along the street frontage. *Said plans shall be consistent with AB 1881 (Model Water Efficient Landscape Ordinance).*

    NOTE: Staff shall not approve the landscaping and irrigation plan without first reviewing and approving the civil drawings, specifically as it pertains to the landscaping and irrigation plan (i.e., location and size of riprap, bio-swales, areas of infiltration trenches, etc.)

74. The landscaped areas shall be provided with a suitable, fixed, permanent and automatically controlled method for watering and sprinkling of plants. This operating sprinkler system shall consist of an electrical time clock, control valves, and piped water lines terminating in an appropriate number of sprinklers to insure proper watering periods and to provide water for all plants within the landscaped area. Sprinklers used to satisfy the requirements of this section shall be spaced to assure complete coverage of all landscaped areas. *Said plan shall be consistent with AB 1881 (Model Water Efficient Landscape Ordinance).*

75. Upon completion of the landscaping improvements, said landscaped areas shall be maintained in a neat, clean, orderly and healthful condition. This is meant to include proper pruning, mowing of lawns, weeding, removal of litter, fertilizing, and replacement of plants when necessary and the regular watering of all plantings.

76. The electrical plans, which show the location of electrical transformer(s), shall be subject to the approval of the Planning Department. Transformers shall not be located within the front yard setback area. The location of the transformer(s) shall be subject to the prior approval of the Director of Planning or designee. The electrical transformer shall be screened with shrubs consistent with Southern California Edison's Guidelines which requires three foot clearance on sides and back of the equipment, and eight foot clearance in front of the equipment. Additionally, the landscaping irrigation system shall be installed so that they do not spray on equipment. (A copy of the Guideline is available at the Planning Department.)

77. The applicant and/or developer shall not allow commercial vehicles, trucks and/or truck tractors to queue on Telegraph Road or Santa Fe Springs Road, use Telegraph Road or Santa Fe Springs Road as a staging area, or to back-up onto the street from the subject property.

78. All activities shall occur inside the buildings. No portion of the required off-street parking and driveway areas shall be used for outdoor storage of any type or for special-event activities, unless prior written approval is obtained from the Director of Planning, Director of Police Services and the Fire Marshall.

79. All parking stalls shall be legibly marked on the pavement. Additionally, all compact spaces shall be further identified by having the words "Compact" or comparable wording legibly written on the pavement, wheel stop or on a clearly visible sign.

80. The owner/developer shall provide a bulletin board, display case, or kiosk to display transportation information where the greatest number of employees are likely to see it. Information shall include, but is not limited to:
    1. Current maps, routes and schedules for public transit routes serving the site; and
    2. Telephone numbers for referrals on transportation information including numbers for the regional ridesharing agency and local transit operators; and
    3. Ridesharing promotional material supplied by commuter-oriented organizations; and
    4. Bicycle route and facility information, including regional/local bicycle maps and bicycle safety information; and
    5. A listing of facilities available for carpoolers, vanpoolers, bicyclists, transit riders and pedestrians at the site. This is required to both meet the requirements of Section 155.502 (D) of the Zoning Regulations and also a goal identified within the City's General Plan Circulation Element.

81. Preferential parking spaces shall be reserved for potential carpool/vanpool vehicles without displacing handicapped and customer parking needs. Vanpool space(s) shall

be legibly marked on the pavement or identified by a sign and also conveyed to employees through the required transportation information board. The preferential carpool/vanpool parking shall be identified on the site plan at the time of plan check submittal. This is required to both meet the requirements of Section 155.502 (D) of the Zoning Regulations and also a goal identified within the City's General Plan Circulation Element.

82. An area shall be designate for bicycle parking and bicycle racks shall be provided. Bike racks shall be provided to accommodate bicycles at a ratio of 4 bicycles for first 50,000 square feet and 1 bicycle for each additional 50,000 square feet. This is required to both meet the requirements of Section 155.502 (D) of the Zoning Regulations and also a goal identified within the City's General Plan Circulation Element.

83. There shall be a safe and convenient zone in which carpool/vanpool vehicles may deliver or board their passengers. Additionally, there shall be sidewalks or other designated pathways following direct and safe routes from external pedestrian circulation system to each building in the development and safe and convenience access from the external circulation system to bicycle parking facilities on-site. This is required to both meet the requirements of Section 155.502 (D) of the Zoning Regulations and also a goal identified within the City's General Plan Circulation Element.

84. Pursuant to the sign standards of the Zoning Regulations and related sign guidelines of the City of Santa Fe Springs, a comprehensive sign program for the development shall be prepared and submitted to the Director of Planning or designee for approval prior to obtaining a building permit for any signs related to the subject development. All signs throughout the subject site shall be installed in accordance with the approved comprehensive sign program for the subject development.

85. The Department of Planning and Development shall first review and approve all sign proposals for the development. The sign proposal (plan) shall include a site plan, building elevation on which the sign will be located, size, style and color of the proposed sign. All drawings shall be properly dimensioned and drawn to scale on 11" x 17" maximum-size paper. All signs shall be installed in accordance with the sign standards of the Zoning Ordinance and the Sign Guidelines of the City.

86. Prior to issuance of building permits, the owner/developer shall comply with the following conditions to the satisfaction of the City of Santa Fe Springs:
    a. Covenants.
        1. Owner/developer shall provide a written covenant to the Planning Department that, except as owner/developer may have otherwise disclosed to the City, Commission, Planning Commission or their employees, in writing, owner/developer has investigated the environmental condition of the property and does not know, or have reasonable cause to believe, that (a) any crude oil, hazardous substances or hazardous wastes, as defined in state and federal law, have been released, as that term is defined in 42 U.S.C. Section

9601 (22), on, under or about the Property, or that (b) any material has been discharged on, under or about the Property that could affect the quality of ground or surface water on the Property within the meaning of the California Porter-Cologne Water Quality Act, as amended, Water Code Section 13000, et seq

2. Owner/developer shall provide a written covenant to the City that, based on reasonable investigation and inquiry, to the best of owner/developer knowledge, it does not know or have reasonable cause to believe that it is in violation of any notification, remediation or other requirements of any federal, state or local agency having jurisdiction concerning the environmental conditions of the Property.

b. Owner/developer understands and agrees that it is the responsibility of the owner/developer to investigate and remedy, pursuant to applicable federal, state and local law, any and all contamination on or under any land or structure affected by this approval and issuance of related building permits. The City, Commission, Planning Commission or their employees, by this approval and by issuing related building permits, in no way warrants that said land or structures are free from contamination or health hazards.

c. Owner/developer understands and agrees that any representations, actions or approvals by the City, Commission, Planning Commission or their employees do not indicate any representation that regulatory permits, approvals or requirements of any other federal, state or local agency have been obtained or satisfied by the owner/developer and, therefore, the City, Commission, Planning Commission or their employees do not release or waive any obligations the owner/developer may have to obtain all necessary regulatory permits and comply with all other federal, state or other local agency regulatory requirements. Owner/developer, not the City, Commission, Planning Commission or their employees will be responsible for any and all penalties, liabilities, response costs and expenses arising from any failure of the owner/developer to comply with such regulatory requirements.

87. The owner/developer shall require and verify that all contractors and sub-contractors have successfully obtained a Business License with the City of Santa Fe Springs prior to beginning any work associated with the subject project. A late fee and penalty will be accessed to any contractor or sub-contractor that fails to obtain a Business License and a Building Permit final or Certificate of Occupancy will not be issued until all fees and penalties are paid in full. Please contact Cecilia Martinez, Business License Clerk, at (562) 868-0511, extension 7527 for additional information. A business license application can also be downloaded at www.santafesprings.org.

88. The Mitigation Monitoring Program, which was prepared for the proposed project and adopted by the Planning Commission upon completion of the Mitigated Negative Declaration, shall be made part of the conditions of approval for Development Plan Approval Case No. 930, 931, 932 and 933. The Mitigation Monitoring and Reporting Program is listed as an attachment to the staff report.

89. The owner/developer shall implement a dust control program for air quality control. The program shall ensure that a water vehicle for dust control operations is kept readily available at all times during construction. The developer shall provide the City Engineer and Building Official with the name, telephone number and e-mail address of the person directly responsible for dust control and operation of the vehicle.

90. During construction, the following information shall be made available on a sign posted at the main entrance(s) to the site:
    1. Name of the development/project.
    2. Name of the development company.
    3. Address or Address range for the subject site.
    4. 24-hour telephone number where someone can leave a message on a particular complaint (dust, noise, odor, etc.).

91. Prior to occupancy of the property/buildings, the owner/developer and/or his tenant(s), shall obtain a valid business license (AKA Business Operation Tax Certificate), and submit a Statement of Intended Use. Both forms, and other required accompanying forms, may be obtained at City Hall by contacting Cecilia Martinez at (562) 868-0511, extension 7527, or through the City's web site (www.santafesprings.org).

92. The development shall be built substantially in accordance with the plot plan, floor plan, and elevations submitted by the applicant and on file with the case. Any modification shall be subject to the review and approval of the Director of Planning or his/her designee.

93. The final site plan, floor plan and elevations of the proposed development and all other appurtenant improvements, textures and color schemes shall be subject to the final approval of the Director of Planning.

94. The owner/developer understands and agrees that if changes to the original plans (submitted and on file with the subject case) are required during construction, revised plans must be provided to the Planning Department for review and approval prior to the implementation of such changes. Please note that certain changes may also require approvals from other departments.

95. All other requirements of the City's Zoning Regulations, Building Code, Property Maintenance Ordinance, State and City Fire Code and all other applicable County, State and Federal regulations and codes shall be complied with.

96. Unless otherwise specified in the action granting Development Plan Approval, said approval which has not been utilized within a period of 24 consecutive months from the effective date shall become null and void. Also the abandonment or nonuse of a development plan approval and any privileges granted thereunder shall become null and void. However, an extension of time may be granted by Commission or Council action.

97. The applicant and owner/developer agrees to defend, indemnify and hold harmless the City of Santa Fe Springs, its agents, officers and employees from any claim, action or proceeding against the City or its agents, officers or employees to attack, set aside, void or annul an approval of the City or any of its councils, commissions, committees or boards arising from or in any way related to the all entitlements and approvals issued by the City in connection with the Project and from any CEQA challenges relating to the environmental review and determination for the Project, or any actions or operations conducted pursuant thereto. Should the City, its agents, officers or employees receive notice of any such claim, action or proceeding, the City shall promptly notify the applicant of such claim, action or proceeding, and shall cooperate fully in the defense thereof.

98. This approval is not effective until the applicant has completed and signed the signature element appearing at the bottom of the last page of these conditions, and returned the original completed and signed document to the City, confirming the applicant's understanding of these conditions and its willingness to accept and comply with them.

The applicant identified below hereby confirms (1) that it has reviewed and understands each of the foregoing conditions for Development Plan Approval Case Numbers 930-933, and (2) its willingness to accept and comply with them.

_____

Name of Applicant – Print

_____ _____

Signature of Authorized Agent Date

CONSENT ITEM

Alcohol Sales Conditional Use Permit Case No. 14

Compliance review of Alcohol Sales Conditional Use Permit Case No. 14 to allow the continued operation and maintenance of an alcoholic beverage sales use for off-site consumption by El Super, Inc. located at 10531 Carmenita Road and within the Gateway Plaza shopping center. (El Super)

RECOMMENDATIONS

That the Planning Commission, based on Staff's compliance review report, find that the subject use is in compliance with all of the conditions of approval and request that this matter be brought back before April 13, 2025, for another compliance review report. The Planning Commission shall note that this matter may be brought back to the Commission at any time should the applicant violate any conditions of approval or any City Codes, or should there be a need to modify, add, or remove a condition of approval.

BACKGROUND

Alcohol Sales Conditional Use Permit (ASCUP) Case No. 14 was initially granted to Gigante Supermarket by the Planning Commission and the City Council at their respective meetings of June 24 and June 27, 2002. On August 23, 2008, La Bodega Latina Corporation bought the Gigante store chain and renamed the stores "El Super". Accordingly, ASCUP Case No. 14 was transferred to the new operators.

ASCUP Case No. 14, under the Gigante ownership and the El Super ownership has had several compliance reviews since its initial approval. On each occasion, Staff has found the business and the alcohol sales activity to be in compliance with the City's codes and the Alcohol Beverage Control's regulations.

This matter is before the Planning Commission because the last time extension required a review of this matter to determine if the business, along with the alcoholic beverage use, is being conducted in compliance with the conditions of approval and all applicable laws.

CALLS FOR SERVICE

Within the past twelve (12) months, there were calls for service registered to this business, however, none of the calls were related to the sale or storage of alcoholic beverages.

COMPLIANCE REVIEW REPORT

As part of the alcohol sales conditional use permit process, staff conducted an inspection of the Applicant's operation and the site to ensure compliance with the conditions of approval as set forth in the initial approval of this Permit. Staff also investigated the use in light of its proximity to other risk considerations such as schools, religious facilities, recreation or other public facilities attended or utilized by minors. After conducting said investigation, Staff found that the establishment is being maintained and operated in full compliance with the City's Zoning Regulations and Conditions of Approval. Staff also checked with the Alcohol Beverage Control (ABC) and found that the establishment is in full compliance with all of the ABC regulations.

Considering this favorable track record, and the fact that the Applicant has complied with all of the initial conditions of approval, Staff believes that changes to the conditions are not warranted at this time.

CONDITIONS OF APPROVAL

Modifications to the existing conditions of approval have not been made, except for Condition No. 17, which references the new compliance review due date.

1. That the sales of alcoholic beverages shall not be permitted between the hours of 2:00 a.m. and 6:00 a.m. each day of the week or as required by the Alcohol Beverage Control.

2. That the Type 21 Alcoholic Beverage Commission license allowing the sale of beer, wine and liquor shall be restricted to the sale for offsite consumption of alcoholic beverages only.

3. That the applicant shall require all other tenants and sub-tenants to obtain a valid Business Operation Tax Certificate (Business License) from the City of Santa Fe Springs.

4. That the rear exterior portion of the store shall be kept clean and orderly at all times. Outdoor storage of crates and pallets is not acceptable.

5. That truck deliveries shall be conducted at the rear of the store at all times.

6. That it shall be the responsibility of the ownership to ensure that no alcoholic beverages purchased on the subject site shall be consumed on the subject site or any adjacent property.

7. That the applicant shall be responsible for maintaining control of litter on the subject property.

8. That the applicant shall not allow any person who is intoxicated, or under the influence of any drug, to enter be at, or remain upon the licensed premises as set forth in Section 25602(a) of the State Business and Professions Code.

9. That the applicant shall not sell, furnish or give alcohol to any habitual drunkard or to any obviously-intoxicated person, as set forth in Section 25602 (a) of the State Business and Professions Code.

10. That the applicant shall not have upon the subject premises any alcoholic beverage(s) other than the alcoholic beverage(s) which the licensee is authorized to sell under the licensee's license, as set forth in Section 25607 (a) of the State Business and Professions Code.

11. That the applicant shall not sell, furnish or give any alcoholic beverage to any person under 21 years of age, as set forth in Section 25658 (a) of the State Business and Professions Code.

12. That the applicant shall not permit any person under 21 years of age to sell alcoholic beverages.

13. That the applicant shall not allow any person to loiter on the subject premises, shall report all such instances to the City's Police Services Center and shall post signs, approved by the Department of Police Services, prohibiting loitering.

14. That the owner, corporate officers and managers shall cooperate fully with all city officials, law enforcement personnel and shall not obstruct or impede their entrance into the licensed premises while in the course of their official duties.

15. That a copy of these conditions shall be posted and maintained with a copy of the City Business License and Fire Department Permits in a place conspicuous to all employees of the location.

16. That in the event the owner(s) intend to sell, lease or sublease the subject business operation or transfer the subject Permit to another owner/applicant or licensee, the Director of Police Services shall be notified in writing of said intention not less than (60) days prior to signing of the agreement to sell, lease or sublease.

17. ***That this Permit shall be subject to a compliance review in five years, no later than April 13, 2025, to determine if the alcoholic beverage activity is still operating in strict compliance with the original conditions of approval. At which time the applicant may request an extension of the privileges granted herein, provided that the use has been continuously maintained in strict compliance with these conditions of approval.***

18. That all other applicable requirements of the City Zoning Ordinance, Uniform Building Code, Uniform Fire Code, the determinations of the City and State Fire Marshall, and all other applicable regulations shall be strictly complied with.

19. It is hereby declared to be the intent that if any provision of this permit is violated or held to be invalid, or if any law, statute, or ordinance is violated, the Permit shall be subject to revocation.

Dino Torres
Director of Police Services

Attachment(s)
1. Vicinity Map



Location Map
Alcohol Sales Conditional Use Permit Case No. 14
El Super

CONSENT ITEM

Alcohol Sales Conditional Use Permit Case No. 43

Compliance review of Alcohol Sales Conditional Use Permit Case No. 43 to allow the continued operation and maintenance of an alcoholic beverage sales use for on-site consumption by Mariscos Sol Y Mar Restaurant located at 8021 Norwalk Boulevard, within the Cefalia Center in the Community Commercial (C-4) Zone. (Ramona Valdez, Mariscos Sol Y Mar Restaurant)

RECOMMENDATIONS

That the Planning Commission, based on Staff's compliance review report, find that the subject use is in compliance with all of the conditions of approval and request that this matter be brought back before April 13, 2025, for another compliance review report. The Planning Commission shall note that this matter may be brought back to the Commission at any time should the applicant violate any conditions of approval or any City Codes, or should there be a need to modify, add, or remove a condition of approval.

BACKGROUND

The family owned and operated restaurant offers Mexican seafood dishes, soft drinks and flavored waters; adult guests have an option to purchase beer for on-site consumption. The subject restaurant is within the Cefalia Center at 8021 Norwalk Boulevard. The restaurant has been in existence since the center was constructed in 1962; however, the restaurant itself has gone through several ownership and name changes. The last ownership change occurred in June 2007, when Mrs. Ramona Valdez acquired the restaurant and rebranded it under a new name of Mariscos Sol Y Mar. Currently, the restaurant holds a Type 41 license issued by the California Department of Alcohol Beverage Control (ABC) for the sale of beer and wine for on-site customer consumption. However, it should be noted that the Applicant provides only beer and has chosen not to sell wine.

This Permit has been granted several time extensions since it was initially approved by the Planning Commission and the City Council in 2008. This matter is now before the Planning Commission because the last time extension imposed a compliance review to determine if the business and the alcoholic beverage use is being conducted in compliance with the conditions of approval and all applicable laws.

CALLS FOR SERVICE

There have been calls for service registered to the location and/or the shopping center, however, none of the calls are related to the sale of alcoholic beverages or directly to the restaurant's customers.

COMPLIANCE REVIEW REPORT

As part of the permit review process, Staff conducted a walk through of the subject site to ensure compliance with regulatory ordinances, conditions and codes, and found the property and business operation in full compliance.

Staff has not received any complaints stemming from the use or from the sale of alcoholic beverages. Staff further contacted the management for the Cefalia Center to obtain input from them, but they did not respond to calls. Staff also checked with the Alcohol Beverage Control (ABC) and found that the establishment is in full compliance with all of the ABC regulations and there has not been any incident to require further ABC investigation.

Considering this favorable track record, and the fact that the applicant has complied with all of the conditions of approval, Staff believes that changes to the conditions are not warranted at this time.

CONDITIONS OF APPROVAL

Staff did not add any additional Conditions of Approval, but made a time change to Item No. 15.

1. That the sales, service and consumption of alcoholic beverages shall be permitted only between the business hours of 9:00 a.m. to 9:00 p.m., each day of the week or as permitted by the Alcohol Beverage Control.

2. That the Type 41 Alcoholic Beverage Control license allowing onsite consumption of beer and wine in connection with a bonafide eating establishment shall be restricted to the sale for consumption of alcoholic beverages on the subject site only; the use shall not sell alcoholic beverages for transport and\or consumption off the subject premises.

3. That the Type 41 Alcoholic Beverage Control license allowing the sale of alcoholic beverages only in conjunction with a bonafide public eating place shall not be exchanged for a public premises type license, nor operated as a public premises; thus alcoholic beverage sales shall not comprise more than 25% of gross sales.

4. That the applicant and/or her employees shall not allow any person who is intoxicated or under the influence of any drug, to enter, be at, or remain upon the licensed premises, as set forth in Section 25602(a) of the Business and Professions Code.

5. That the applicant and/or his employees shall not sell, furnish or give any alcoholic beverage to any person under 21 years of age, as set forth in Section 25658 (a) of the State Business and Professions Code.

6. That the applicant and/or his employees shall not permit any person under 21 years of age to sell alcoholic beverages.

7. That it shall be the responsibility of the applicant and/or his employees to ensure that all alcoholic beverages purchased on the subject site shall be consumed within the business establishment.

8. That the applicant and/or his employees shall not allow any person to loiter on the subject premises, shall report all such instances to the Whittier Police Department.

9. That a maximum occupancy placard shall continue to be maintained posted over each doorway. This occupancy limitation shall not be violated at any time.

10. That streamers, banners, pennants, whirling devices or similar objects that wave, float, fly, rotate or move in the breeze shall be prohibited unless approved by the Director of Planning and Development. A written request shall be submitted to the Department of Planning and Development 30 days prior to date the Applicant desires to use such advertisements.

11. That there shall be no live entertainment, amplified music or dancing permitted on the premises at any time.

12. That there shall be no bar or lounge area upon the licensed premises maintained for the primary purpose of alcohol sales or consumption of alcoholic beverages directly to patrons for consumption.

13. That in the event the applicant intends to sell, lease or sublease the subject business operation or transfer the subject permit to another owner/applicant or licensee, the Director of Police Services shall be notified in writing of said intention not less than 60 (sixty) days prior to signing of the agreement to sell, lease or sublease.

14. That a copy of these conditions shall be posted and maintained with a copy of the City Business License and Fire Department permits, in a place conspicuous to all employees of the location.

15. ***That this Permit shall be subject to a compliance review in five years, no later than April 13, 2025, to ensure the alcohol beverage storage activity is still operating in strict compliance with the original conditions of approval. At which time the applicant may request an extension of the privileges granted herein, provided that the use has been continuously***

maintained in strict compliance with these conditions of approval.

16. That all other applicable requirements of the City Zoning Ordinance, California Building Code, California Fire Code, Business & Professions Code, the determinations of the City and State Fire Marshall, and all other applicable regulations shall be strictly complied with.

17. It is hereby declared to the intent that if any provision of this permit is violated or held to be invalid, or if any law, statute, or ordinance is violated the permit shall be void and the privileges granted hereunder shall lapse.

Dino Torres
Director of Police Services

Attachment(s)
1. Vicinity Map

Location Map



Alcohol Sales Conditional Use Permit Case No. 43
Located at
Mariscos Sol Y Mar Restaurant
8021 Norwalk Blvd
Santa Fe Springs

CONSENT ITEM

Alcohol Sales Conditional Use Permit Case No. 76

Compliance Review Report for Alcohol Sales Conditional Use Permit Case No. 76 to allow the continued operation and maintenance of an alcoholic beverage use involving the warehousing and distribution of alcoholic beverages at Harbor Distributing located at 11204 Norwalk Boulevard within the Heavy Manufacturing (M-2).
(Harbor Distributing, LLC)

RECOMMENDATIONS

That the Planning Commission, based on the attached compliance review report, find that the subject use is in compliance with all of the conditions of approval set forth in the initial approval of Alcohol Sales Conditional Use Permit Case No. 76, and request that this matter be brought back in five-years, before April 13, 2025, for another compliance review report.

BACKGROUND

The Applicant, Harbor Distribution, LLC, is a beer distributor in the Southern California region, in 1989 they joined Reyes Holdings. Reyes Holdings is one of the largest beer distributors in the United States. The union of the two businesses greatly benefited Harbor Distribution throughout the years. Today, Harbor Distribution delivers over 20-million cases of beer and maintains approximately 5,600 accounts. In 2018, Harbor entered into a lease to occupy 289,414 square foot building located at 11204 Norwalk Boulevard.

Subsequently, and in accordance with Section 155.628 of the City Code, at their respective meetings of November 19, 2018 and December 13, 2018, the Planning Commission and the City Council approved Alcohol Sales Conditional Use Permit Case No. 76 to allow the maintenance and operation of a storage and distribution use for alcoholic beverage distribution within the subject warehouse.

Pursuant to the initial conditions of approval, this matter is before the Planning Commission because a first-year compliance review is due.

CALLS FOR SERVICE

As part of the review process, staff checked the calls for service and found that no calls were generated as a result of the alcohol beverage activities.

COMPLIANCE REVIEW REPORT

As part of the permit review process, Staff conducted a walk-through inspection of the subject site and found the premises in compliance with regulatory ordinances, conditions and codes. During the inspection, Staff further learned that the operation only handles beer products and not wine, however, they are permitted to warehouse and distribute both.

Staff has not received any complaints stemming from the use or from the on-site warehousing of alcoholic beverages. Staff checked with the Department of Alcohol Beverage Control (ABC) and found that the warehouse establishment is in full compliance with all of the ABC regulations and that there has not been any incident or reports to require any type of investigation.

Based on Staff's findings, and the applicant's compliance with all of the initial conditions of approval, Staff believes that changes to the conditions are not warranted at this time. Staff is recommending another compliance review of Alcohol Sales Conditional Use Permit Case No. 76 in five-years, before April 13, 2025.

CONDITIONS OF APPROVAL

Based on the satisfactory compliance review, staff does not feel that any condition should be added or modified from the initial conditions of approval of this Permit. The only proposed modification occurs to Condition No. 10 pertaining to the next compliance review report (shown in bold font).

1. That in order to facilitate the removal of unauthorized vehicles parked on the property, the applicant shall continue to maintain signs not less than 17" wide by 22" long. The signs shall prohibit the public parking of unauthorized vehicles and indicate that unauthorized vehicles will be removed at the owner's expense and also contain the California Vehicle Code that permits this action. The sign shall also contain the telephone number of the local law enforcement agency (Police Services Center (562) 409-1850). The lettering within the sign shall not be less than one inch in height. The applicant shall contact the Police Services Center for an inspection no later than 30 days after the project has been completed and prior to the occupancy permit being issued.

2. That the building, including any lighting, fences, walls, cabinets, and poles shall continue to be maintained in good repair, free from trash, debris, litter and graffiti and other forms of vandalism. Any damage from any cause shall be repaired within 72 hours of occurrence, weather permitting, to minimize occurrences of dangerous conditions or visual blight. Paint utilized in covering graffiti shall be a color that matches, as closely possible, the color of the existing and/or adjacent surfaces.

3. That the applicant shall be responsible for maintaining control of litter, debris, boxes, pallets and trash on the subject property, and shall implement a daily

clean-up program to maintain the area clean and orderly.

4. That the required off-street parking areas shall not be encroached on, reduced or used for outdoor storage of trucks, trailers, equipment or any other related material.

5. That the alcoholic beverages shall not be sold to the general public from the subject site at any time.

6. That upon the request of the Director of Police Services, the Applicant shall submitted an updated security plan and shall address the following for the purpose of minimizing risks to the public health, welfare and safety:

   (A) A description of the storage and the accessibility of alcohol beverages as well as any surplus alcohol beverages in storage;

   (B) A description of crime prevention barriers in place at the subject premises, including, but not limited to, placement of signage, landscaping, ingress and egress controls, security systems and site plan layouts;

   (C) A description of how the permittee plans to educate employees on their responsibilities, actions required of them with respect to enforcement of laws dealing with the sale of alcohol to minors and the conditions of approval set forth herein;

   (D) A business policy requiring employees to notify the Police Services Center of any potential violations of the law or this Conditional Use Permit occurring on the subject premises and the procedures for such notifications.

   (E) The City's Director of Police Services may, at his discretion, require amendments to the Security Plan to assure the protection of the public's health, welfare and safety

7. That the applicant shall, at all times, maintain in working order an alarm system and/or service that notifies the Whittier Police Department immediately if a breach occurs.

8. That the owner, corporate officers and managers shall cooperate fully with all City officials, law enforcement personnel, and shall not obstruct or impede their entrance into the licensed premises while in the course of their official duties.

9. That in the event the owner(s) intend to sell, lease or sublease the subject business operation or transfer the subject Permit to another party or licensee, the Director of Police Services shall be notified in writing of said intention not less than (60) days prior to signing of the agreement to sell or sublease.

10. **That ASCUP Case No. 76 shall be subject to a compliance review in five (5) years, no later than April 13, 2025, to ensure the premises is still operating in strict compliance with the original conditions of approval. At which time the applicant may request an extension of the privileges granted herein, provided that the use has been continuously maintained in strict compliance with these conditions of approval.**

11. It is hereby declared to be the intent that if any provision of this Permit is violated or held to be invalid, or if any law, statute or ordinance is violated, the Permit shall be void and the privileges granted hereunder shall lapse.

Dino Torres
Director of Police Services

Attachment(s)
1. Location Map

Location Map



ALCOHOL SALES CONDITIONAL USE PERMIT CASE NO. 76

Harbor Distribution, LLC
11204 Norwalk Boulevard
Santa Fe Springs

Submitted By: L. Collazo, Department of Police Services

Date of Report: March 18, 2020