CAP CONSISTENCY CHECKLIST SUBMITTAL APPLICATION

- The Checklist is required only for projects subject to CEQA review.[2]
- If required, the Checklist must be included in the project submittal package. Application submittal procedures can be found in Chapter 11: Land Development Procedures of the City's Municipal Code.
- The requirements in the Checklist will be included in the project's conditions of approval.
- The applicant must provide an explanation of how the proposed project will implement the requirements described herein to the satisfaction of the Planning Department.

Application Information

Contact Information

Project No./Name: PTS#555609 Lumina

Property Address: 93.43 acres located west of Cactus Road, north of Siempre Viva Road

Applicant Name/Co.: Danny Gabriel, CR Otay Canyon Ranch Associates, LLC

Contact Phone: (858) 490-2300 Contact Email: dannyg@colrich.com

Was a consultant retained to complete this checklist? ■ Yes ☐ No If Yes, complete the following

Consultant Name: Jerrica Harding Contact Phone: (619) 501-6041 x 101

Company Name: T&B Planning, Inc. Contact Email: jharding@tbplanning.com

Project Information

1. What is the size of the project (acres)? 93.43 acres
2. Identify all applicable proposed land uses:
   - ☐ Residential (indicate # of single-family units):
   - ■ Residential (indicate # of multi-family units): 1,868 units
   - ■ Commercial (total square footage): 62,525 s.f.
   - ☐ Industrial (total square footage):
   - ■ Other (describe): Park Sites, Bio-Filtration Basins, Open Space
3. Is the project or a portion of the project located in a Transit Priority Area? ■ Yes ☐ No
4. Provide a brief description of the project proposed:

The Project proposes a Tentative Map (TM) application in the Otay Mesa community within the Central Village Specific Plan (CVSP) area. Consistent with the land use designations applied to the site by the CVSP, the TM proposes development of Medium High Density Mixed-Use, Medium Density Multi-Family, Low Density Multi-Family, Public School, Recreation, and Open Space uses on 25 lots.

[2] Certain projects seeking ministerial approval may be required to complete the Checklist. For example, projects in a Community Plan Implementation Overlay Zone may be required to use the Checklist to qualify for ministerial level review. See Supplemental Development Regulations in the project's community plan to determine applicability.

CAP CONSISTENCY CHECKLIST QUESTIONS

Step 1: Land Use Consistency

The first step in determining CAP consistency for discretionary development projects is to assess the project's consistency with the growth projections used in the development of the CAP. This section allows the City to determine a project's consistency with the land use assumptions used in the CAP.

Step 1: Land Use Consistency		
Checklist Item (Check the appropriate box and provide explanation and supporting documentation for your answer)	Yes	No
A. Is the proposed project consistent with the existing General Plan and Community Plan land use and zoning designations?;[3] OR, B. If the proposed project is not consistent with the existing land use plan and zoning designations, and includes a land use plan and/or zoning designation amendment, would the proposed amendment result in an increased density within a Transit Priority Area (TPA)[4] and implement CAP Strategy 3 actions, as determined in Step 3 to the satisfaction of the Development Services Department?; OR, C. If the proposed project is not consistent with the existing land use plan and zoning designations, does the project include a land use plan and/or zoning designation amendment that would result in an equivalent or less GHG-intensive project when compared to the existing designations?	☑	☐

If "***Yes***," proceed to Step 2 of the Checklist. For question B above, complete Step 3. For question C above, provide estimated project emissions under both existing and proposed designation(s) for comparison. Compare the maximum buildout of the existing designation and the maximum buildout of the proposed designation.

If "***No***," in accordance with the City's Significance Determination Thresholds, the project's GHG impact is significant. The project must nonetheless incorporate each of the measures identified in Step 2 to mitigate cumulative GHG emissions impacts unless the decision maker finds that a measure is infeasible in accordance with CEQA Guidelines Section 15091. Proceed and complete Step 2 of the Checklist.

N/A

[3] This question may also be answered in the affirmative if the project is consistent with SANDAG Series 12 growth projections, which were used to determine the CAP projections, as determined by the Planning Department.

[4] This category applies to all projects that answered in the affirmative to question 3 on the previous page: Is the project or a portion of the project located in a transit priority area.

Step 2: CAP Strategies Consistency

The second step of the CAP consistency review is to review and evaluate a project's consistency with the applicable strategies and actions of the CAP. Step 2 only applies to development projects that involve permits that would require a certificate of occupancy from the Building Official or projects comprised of one and two family dwellings or townhouses as defined in the California Residential Code and their accessory structures.[5] All other development projects that would not require a certificate of occupancy from the Building Official shall implement Best Management Practices for construction activities as set forth in the Greenbook (for public projects).

Step 2: CAP Strategies Consistency			
Checklist Item (Check the appropriate box and provide explanation for your answer)	Yes	No	N/A
Strategy 1: Energy & Water Efficient Buildings			
1. *Cool/Green Roofs*. • Would the project include roofing materials with a minimum 3-year aged solar reflection and thermal emittance or solar reflection index equal to or greater than the values specified in the voluntary measures under California Green Building Standards Code (Attachment A)?; OR • Would the project roof construction have a thermal mass over the roof membrane, including areas of vegetated (green) roofs, weighing at least 25 pounds per square foot as specified in the voluntary measures under California Green Building Standards Code?; OR • Would the project include a combination of the above two options? Check "N/A" only if the project does not include a roof component. The Project is a Tentative Map that will require a future Neighborhood Development Permit. Strategy 1 shall be evaluated concurrent with the future Neighborhood Development Permit application. The Project as proposed would not conflict with Strategy 1.	☐	☐	☑

[5] Actions that are not subject to Step 2 would include, for example: 1) discretionary map actions that do not propose specific development, 2) permits allowing wireless communication facilities, 3) special events permits, 4) use permits or other permits that do not result in the expansion or enlargement of a building (e.g., decks, garages, etc.), and 5) non-building infrastructure projects such as roads and pipelines. Because such actions would not result in new occupancy buildings from which GHG emissions reductions could be achieved, the items contained in Step 2 would not be applicable.

2. *Plumbing fixtures and fittings* With respect to plumbing fixtures or fittings provided as part of the project, would those low-flow fixtures/appliances be consistent with each of the following: Residential buildings: • Kitchen faucets: maximum flow rate not to exceed 1.5 gallons per minute at 60 psi; • Standard dishwashers: 4.25 gallons per cycle; • Compact dishwashers: 3.5 gallons per cycle; and • Clothes washers: water factor of 6 gallons per cubic feet of drum capacity? Nonresidential buildings: • Plumbing fixtures and fittings that do not exceed the maximum flow rate specified in Table A5.303.2.3.1 (voluntary measures) of the California Green Building Standards Code (See Attachment A); and • Appliances and fixtures for commercial applications that meet the provisions of Section A5.303.3 (voluntary measures) of the California Green Building Standards Code (See Attachment A)? Check "N/A" only if the project does not include any plumbing fixtures or fittings. The Project is a Tentative Map that will require a future Neighborhood Development Permit. Strategy 1 shall be evaluated concurrent with the future Neighborhood Development Permit application. The Project as proposed would not conflict with Strategy 1.	☐	☐	☑

Strategy 3: Bicycling, Walking, Transit & Land Use			
3. *Electric Vehicle Charging* • Multiple-family projects of 17 dwelling units or less: Would 3% of the total parking spaces required, or a minimum of one space, whichever is greater, be provided with a listed cabinet, box or enclosure connected to a conduit linking the parking spaces with the electrical service, in a manner approved by the building and safety official, to allow for the future installation of electric vehicle supply equipment to provide electric vehicle charging stations at such time as it is needed for use by residents? • Multiple-family projects of more than 17 dwelling units: Of the total required listed cabinets, boxes or enclosures, would 50% have the necessary electric vehicle supply equipment installed to provide active electric vehicle charging stations ready for use by residents? • Non-residential projects: Of the total required listed cabinets, boxes or enclosures, would 50% have the necessary electric vehicle supply equipment installed to provide active electric vehicle charging stations ready for use? Check "N/A" only if the project is a single-family project or would not require the provision of listed cabinets, boxes, or enclosures connected to a conduit linking the parking spaces with electrical service, e.g., projects requiring fewer than 10 parking spaces. The Project is a Tentative Map that will require a future Neighborhood Development Permit. Strategy 3 shall be evaluated concurrent with the future Neighborhood Development Permit application. The Project as proposed would not conflict with Strategy 3.	☐	☐	☑
Strategy 3: Bicycling, Walking, Transit & Land Use (Complete this section if project includes non-residential or mixed uses)			
4. *Bicycle Parking Spaces* Would the project provide more short- and long-term bicycle parking spaces than required in the City's Municipal Code (Chapter 14, Article 2, Division 5)?[6] Check "N/A" only if the project is a residential project. The Project is a Tentative Map that will require a future Neighborhood Development Permit. Strategy 3 shall be evaluated concurrent with the future Neighborhood Development Permit application. The Project as proposed would not conflict with Strategy 3.	☐	☐	☑

[6] Non-portable bicycle corrals within 600 feet of project frontage can be counted towards the project's bicycle parking requirements.

5. *Shower facilities*

If the project includes nonresidential development that would accommodate over 10 tenant occupants (employees), would the project include changing/shower facilities in accordance with the voluntary measures under the California Green Building Standards Code as shown in the table below?

Number of Tenant Occupants (Employees)	Shower/Changing Facilities Required	Two-Tier (12" X 15" X 72") Personal Effects Lockers Required
0-10	0	0
11-50	1 shower stall	2
51-100	1 shower stall	3
101-200	1 shower stall	4
Over 200	1 shower stall plus 1 additional shower stall for each 200 additional tenant-occupants	1 two-tier locker plus 1 two-tier locker for each 50 additional tenant-occupants

Check "N/A" only if the project is a residential project, or if it does not include nonresidential development that would accommodate over 10 tenant occupants (employees).

The Project is a Tentative Map that will require a future Neighborhood Development Permit. Strategy 3 shall be evaluated concurrent with the future Neighborhood Development Permit application. The Project as proposed would not conflict with Strategy 3.

☐	☐	☑

6. *Designated Parking Spaces*

If the project includes a nonresidential use in a TPA, would the project provide designated parking for a combination of low-emitting, fuel-efficient, and carpool/vanpool vehicles in accordance with the following table?

Number of Required Parking Spaces	Number of Designated Parking Spaces
0-9	0
10-25	2
26-50	4
51-75	6
76-100	9
101-150	11
151-200	18
201 and over	At least 10% of total

This measure does not cover electric vehicles. See Question 4 for electric vehicle parking requirements.

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces. The required designated parking spaces are to be provided within the overall minimum parking requirement, not in addition to it.

Check "N/A" only if the project is a residential project, or if it does not include nonresidential use in a TPA.

The Project is a Tentative Map that will require a future Neighborhood Development Permit. Strategy 3 shall be evaluated concurrent with the future Neighborhood Development Permit application. The Project as proposed would not conflict with Strategy 3.

☐	☐	☑

7. *Transportation Demand Management Program* If the project would accommodate over 50 tenant-occupants (employees), would it include a transportation demand management program that would be applicable to existing tenants and future tenants that includes: At least one of the following components: • Parking cash out program • Parking management plan that includes charging employees market-rate for single-occupancy vehicle parking and providing reserved, discounted, or free spaces for registered carpools or vanpools • Unbundled parking whereby parking spaces would be leased or sold separately from the rental or purchase fees for the development for the life of the development And at least three of the following components: • Commitment to maintaining an employer network in the SANDAG iCommute program and promoting its RideMatcher service to tenants/employees • On-site carsharing vehicle(s) or bikesharing • Flexible or alternative work hours • Telework program • Transit, carpool, and vanpool subsidies • Pre-tax deduction for transit or vanpool fares and bicycle commute costs • Access to services that reduce the need to drive, such as cafes, commercial stores, banks, post offices, restaurants, gyms, or childcare, either onsite or within 1,320 feet (1/4 mile) of the structure/use? Check "N/A" only if the project is a residential project or if it would not accommodate over 50 tenant-occupants (employees). The Project is a Tentative Map that will require a future Neighborhood Development Permit. Strategy 3 shall be evaluated concurrent with the future Neighborhood Development Permit application. The Project as proposed would not conflict with Strategy 3.	☐	☐	☑

Step 3: Project CAP Conformance Evaluation (if applicable)

The third step of the CAP consistency review only applies if Step 1 is answered in the affirmative under option B. The purpose of this step is to determine whether a project that is located in a TPA but that includes a land use plan and/or zoning designation amendment is nevertheless consistent with the assumptions in the CAP because it would implement CAP Strategy 3 actions. In general, a project that would result in a reduction in density inside a TPA would not be consistent with Strategy 3.The following questions must each be answered in the affirmative and fully explained.

1. **Would the proposed project implement the General Plan's City of Villages strategy in an identified Transit Priority Area (TPA) that will result in an increase in the capacity for transit-supportive residential and/or employment densities?**

   Considerations for this question:
   - Does the proposed land use and zoning designation associated with the project provide capacity for transit-supportive residential densities within the TPA?
   - Is the project site suitable to accommodate mixed-use village development, as defined in the General Plan, within the TPA?
   - Does the land use and zoning associated with the project increase the capacity for transit-supportive employment intensities within the TPA?

2. **Would the proposed project implement the General Plan's Mobility Element in Transit Priority Areas to increase the use of transit?**

   Considerations for this question:
   - Does the proposed project support/incorporate identified transit routes and stops/stations?
   - Does the project include transit priority measures?

3. **Would the proposed project implement pedestrian improvements in Transit Priority Areas to increase walking opportunities?**

   Considerations for this question:
   - Does the proposed project circulation system provide multiple and direct pedestrian connections and accessibility to local activity centers (such as transit stations, schools, shopping centers, and libraries)?
   - Does the proposed project urban design include features for walkability to promote a transit supportive environment?

4. **Would the proposed project implement the City of San Diego's Bicycle Master Plan to increase bicycling opportunities?**

   Considerations for this question:
   - Does the proposed project circulation system include bicycle improvements consistent with the Bicycle Master Plan?
   - Does the overall project circulation system provide a balanced, multimodal, "complete streets" approach to accommodate mobility needs of all users?

5. **Would the proposed project incorporate implementation mechanisms that support Transit Oriented Development?**

   Considerations for this question:
   - Does the proposed project include new or expanded urban public spaces such as plazas, pocket parks, or urban greens in the TPA?
   - Does the land use and zoning associated with the proposed project increase the potential for jobs within the TPA?
   - Do the zoning/implementing regulations associated with the proposed project support the efficient use of parking through mechanisms such as: shared parking, parking districts, unbundled parking, reduced parking, paid or time-limited parking, etc.?

6. **Would the proposed project implement the Urban Forest Management Plan to increase urban tree canopy coverage?**

   Considerations for this question:
   - Does the proposed project provide at least three different species for the primary, secondary and accent trees in order to accommodate varying parkway widths?
   - Does the proposed project include policies or strategies for preserving existing trees?
   - Does the proposed project incorporate tree planting that will contribute to the City's 20% urban canopy tree coverage goal?

CLIMATE ACTION PLAN CONSISTENCY CHECKLIST
ATTACHMENT A

This attachment provides performance standards for applicable Climate Action Pan (CAP) Consistency Checklist measures.

Table 1 Roof Design Values for Question 1: Cool/Green Roofs supporting Strategy 1: Energy & Water Efficient Buildings of the Climate Action Plan

Land Use Type	Roof Slope	Minimum 3-Year Aged Solar Reflectance	Thermal Emittance	Solar Reflective Index
Low-Rise Residential	≤ 2:12	0.55	0.75	64
	> 2:12	0.20	0.75	16
High-Rise Residential Buildings, Hotels and Motels	≤ 2:12	0.55	0.75	64
	> 2:12	0.20	0.75	16
Non-Residential	≤ 2:12	0.55	0.75	64
	> 2:12	0.20	0.75	16

Source: Adapted from the California Green Building Standards Code (CALGreen) Tier 1 residential and non-residential voluntary measures shown in Tables A4.106.5.1 and A5.106.11.2.2, respectively. Roof installation and verification shall occur in accordance with the CALGreen Code.

CALGreen does not include recommended values for low-rise residential buildings with roof slopes of ≤ 2:12 for San Diego's climate zones (7 and 10). Therefore, the values for climate zone 15 that covers Imperial County are adapted here.

Solar Reflectance Index (SRI) equal to or greater than the values specified in this table may be used as an alternative to compliance with the aged solar reflectance values and thermal emittance.

Table 2	Fixture Flow Rates for Non-Residential Buildings related to Question 2: Plumbing Fixtures and Fittings supporting Strategy 1: Energy & Water Efficient Buildings of the Climate Action Plan
Fixture Type	**Maximum Flow Rate**
Showerheads	1.8 gpm @ 80 psi
Lavatory Faucets	0.35 gpm @60 psi
Kitchen Faucets	1.6 gpm @ 60 psi
Wash Fountains	1.6 [rim space(in.)/20 gpm @ 60 psi]
Metering Faucets	0.18 gallons/cycle
Metering Faucets for Wash Fountains	0.18 [rim space(in.)/20 gpm @ 60 psi]
Gravity Tank-type Water Closets	1.12 gallons/flush
Flushometer Tank Water Closets	1.12 gallons/flush
Flushometer Valve Water Closets	1.12 gallons/flush
Electromechanical Hydraulic Water Closets	1.12 gallons/flush
Urinals	0.5 gallons/flush

Source: Adapted from the California Green Building Standards Code (CALGreen) Tier 1 non-residential voluntary measures shown in Tables A5.303.2.3.1 and A5.106.11.2.2, respectively. See the California Plumbing Code for definitions of each fixture type.

Where complying faucets are unavailable, aerators rated at 0.35 gpm or other means may be used to achieve reduction.

Acronyms:
gpm = gallons per minute
psi = pounds per square inch (unit of pressure)
in. = inch

Table 3	**Standards for Appliances and Fixtures for Commercial Application related to Question 2: Plumbing Fixtures and Fittings supporting Strategy 1: Energy & Water Efficient Buildings of the Climate Action Plan**	
Appliance/Fixture Type	Standard	
Clothes Washers	Maximum Water Factor (WF) that will reduce the use of water by 10 percent below the California Energy Commissions' WF standards for commercial clothes washers located in Title 20 of the *California Code of Regulations*.	
Conveyor-type Dishwashers	0.70 maximum gallons per rack (2.6 L) (High-Temperature)	0.62 maximum gallons per rack (4.4 L) (Chemical)
Door-type Dishwashers	0.95 maximum gallons per rack (3.6 L) (High-Temperature)	1.16 maximum gallons per rack (2.6 L) (Chemical)
Undercounter-type Dishwashers	0.90 maximum gallons per rack (3.4 L) (High-Temperature)	0.98 maximum gallons per rack (3.7 L) (Chemical)
Combination Ovens	Consume no more than 10 gallons per hour (38 L/h) in the full operational mode.	
Commercial Pre-rinse Spray Valves (manufactured on or after January 1, 2006)	Function at equal to or less than 1.6 gallons per minute (0.10 L/s) at 60 psi (414 kPa) and • Be capable of cleaning 60 plates in an average time of not more than 30 seconds per plate. • Be equipped with an integral automatic shutoff. • Operate at static pressure of at least 30 psi (207 kPa) when designed for a flow rate of 1.3 gallons per minute (0.08 L/s) or less.	

Source: Adapted from the California Green Building Standards Code (CALGreen) Tier 1 non-residential voluntary measures shown in Section A5.303.3. See the California Plumbing Code for definitions of each appliance/fixture type.

Acronyms:
L = liter
L/h = liters per hour
L/s = liters per second
psi = pounds per square inch (unit of pressure)
kPa = kilopascal (unit of pressure)

Biological Technical Report for the Lumina Tentative Map Project

March 14, 2019

Prepared for:

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Prepared by:

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ALDEN
ENVIRONMENTAL, INC

Biological Technical Report for the Lumina Tentative Map Project

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D	Burrowing Owl Survey Report
E	Jurisdictional Delineation Report
F	Coastal Sage Scrub Restoration Plan

1.0 INTRODUCTION

This report describes existing biological conditions on the Lumina Tentative Map Project (project) site and provides the U.S. Fish and Wildlife Service (USFWS), U.S. Army Corps of Engineers (Corps), California Department of Fish and Wildlife (CDFW), City of San Diego (City), and project applicant with information necessary to assess impacts to biological resources under the California Environmental Quality Act (CEQA) and City, State, and federal regulations.

1.1 PROJECT LOCATION

The approximately 93-acre project site is located in the City, north of Siempre Viva Road and west of Cactus Road in the Otay Mesa community within the Central Village Specific Plan (CVSP) area. It is in Section 33, Township 18 South, Range 1 W on the Otay Mesa 7.5-minute series U.S. Geological Survey quadrangle (Figures 1 and 2).

1.2 PROJECT DESCRIPTION

The project would establish commercial and residential mixed uses, multi-family residential uses, public school facilities, recreation, and open space. The project also includes brush management (on site), two bio-filtration basins, and CVSP roadways. The proposed land uses are consistent with the land use designations applied to the site by the CVSP. Future development of established lots within the Tentative Map would be subject to further environmental review.

Both bio-filtration basins would be HOA owned and maintained. The bio-filtration basin in the southern portion of the site would include two stormwater pipes that would direct flows to drain into the detention basin, while one stormwater drainage pipe would direct flows from the detention basin to an outlet point within area designated as Multi-habitat Planning Area (MHPA). The proposed bio-filtration basin in the northern portion of the site would include one stormwater pipe to direct flows to drain into the detention basin and one stormwater pipe to direct treated drainage discharge from the detention basin to an outlet point within the MHPA. That outlet point is entirely within the graded slope for Airway Road, which is allowed in the MHPA as explained below.

The project proposes roadway construction and improvements on and off of the project site as follows: improvements to Airway Road off site and an extension of existing Airway Road on site; improvements to existing Cactus Road off site; on-site construction and associated improvements of a Village Entry Street (Village Way); on-site construction of a segment of Central Main Street; and on-site construction of a segment of C Street. The extension of Airway Road on site, as well as a drive off of Airway Road on site, would occur within the City's Multiple Species Conservation Program (MSCP) preserve, the MHPA, as planned by the Otay Mesa Community Plan Update and evaluated in the Final Environmental Impact Report (FEIR; City 2014). Airway Road is an essential public facility and is, therefore, "considered conditionally compatible with the biological objectives of the MSCP and allowed within the City's MHPA" (City 1997).

The alignment and classification of Airway Road as a Six Lane Primary Arterial was established pursuant to the Otay Mesa Community Plan Update and CVSP. A traffic analysis performed for the Otay Mesa Community Plan determined the minimum intersection spacing between Cactus Road and Village Way. The intersection location and storm drain facilities included with the project are considered supporting features for the ultimate buildout of the Community Plan Circulation Element pursuant to the approved Otay Mesa Community Plan Update and CVSP.

Access to Planning Area 9 (and the Airway Road detention basin) from Airway Road is required to be from the signalized intersection with Village Way, which results in the private drive on site passing through the MHPA. The private drive access to Planning Area 9 crossing the MHPA is, therefore, the result of the Community Plan Circulation Element and not the result of Lumina Tentative Map Project design. Given this, and the City's required intersection spacing from Cactus Road, there is no other location option for the access road.

Grading would occur on and off site. A total of 431,000 cubic yards (c.y.) of cut and 431,000 c.y. of fill is anticipated, with no import or export of soil materials.

Biological resources surveys, including focused surveys for sensitive species (i.e., sensitive plant species, burrowing owl [*Athene cunicularia*; BUOW], and Quino checkerspot butterfly [*Euphydryas editha quino*; QCB]), have been conducted on the project site since 2013. As demonstrated in Section 2.0, *Methods and Survey Limitations*, there is a multi-year biological resource database for the project site.

2.0 METHODS AND SURVEY LIMITATIONS

2.1 LITERATURE REVIEW

Prior to conducting updated field investigations, Alden Environmental, Inc. (Alden) performed a review of existing literature and previously prepared Biological Survey Reports for the project site including the following.

- CVSP Biological Resources Report Addendum (Alden 2017)
- Sensitive Plant Species Survey Report. Letter to Ms. Rita Mahoney, ColRich (Alden 2016a)
- 2016 Report U.S. Fish and Wildlife Service Protocol Level Presence/Absence Survey for the Quino Checkerspot Butterfly (Alden 2016b)
- Burrowing Owl Survey Report for Otay Canyon Ranch. Letter to Ms. Rita Mahoney, ColRich (Alden 2016c)
- 2015 Report U.S. Fish and Wildlife Service Protocol Level Presence/Absence Surveys for the Quino Checkerspot Butterfly (Alden 2015a)
- Burrowing Owl Survey Report for Otay Canyon Ranch. Letter to Ms. Rita Mahoney, ColRich (Alden 2015b)
- Burrowing Owl Survey Report for Spring Canyon Ranch. Letter to Ms. Rita Mahoney, ColRich (Alden 2014)
- Otay Mesa Community Plan Update FEIR (City 2014)
- Biological Resources Report for the Otay Mesa Community Plan Update, City of San Diego Project No. 30330/304032, SCH No. 2004651076 (RECON Environmental, Inc. 2013)

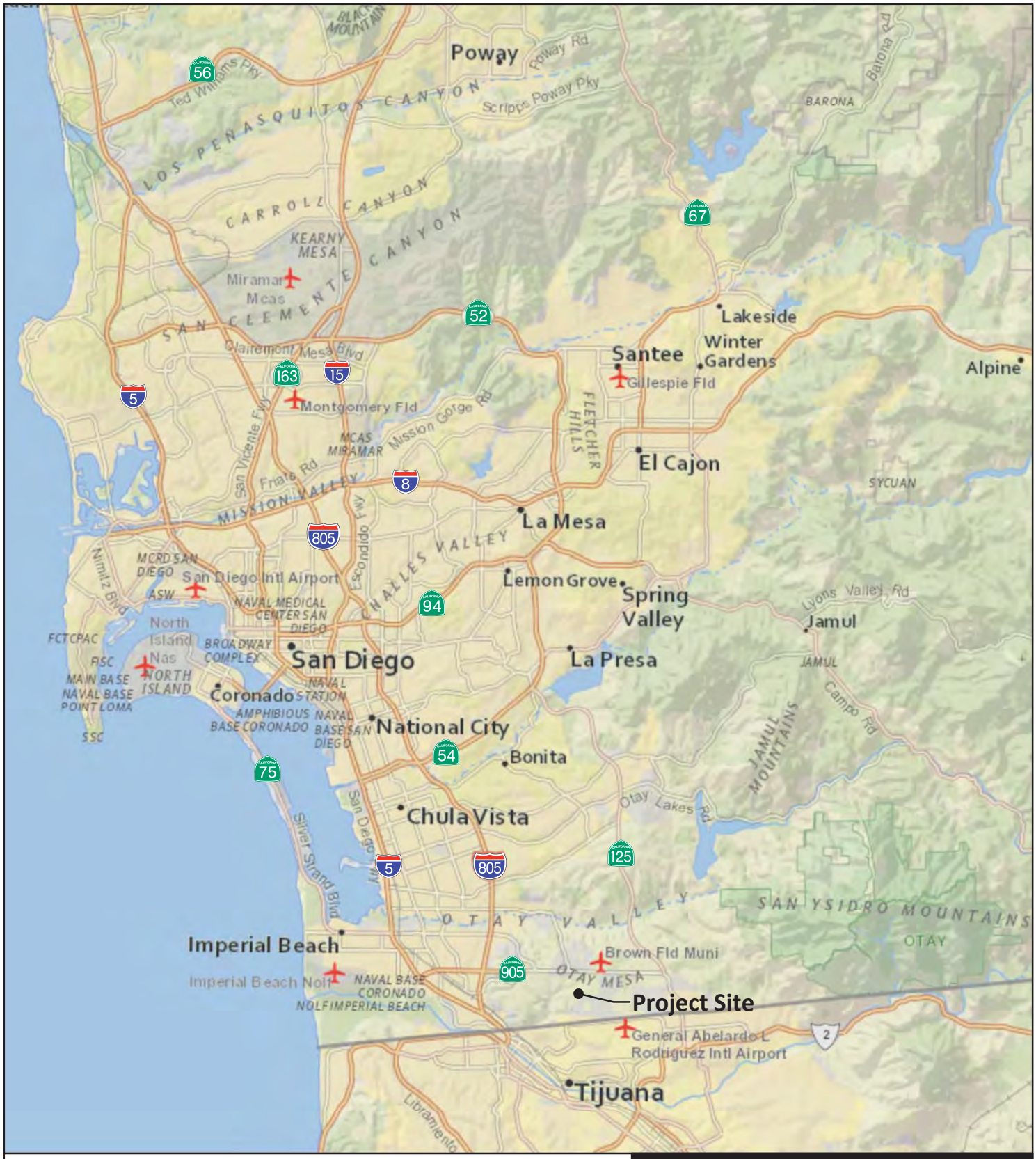


Figure 1

Regional Location

LUMINA TENTATIVE MAP PROJECT

N
W E
S

0 2 4 Miles

ALDEN ENVIRONMENTAL, INC

Figure 2

Project Location

LUMINA TENTATIVE MAP PROJECT

N
W E
S

0 1,000 2,000 Feet

ALDEN ENVIRONMENTAL, INC

2.2 BIOLOGICAL SURVEYS

Biological resources mapping and surveys were conducted previously on the project site for preparation of the CVSP Biological Resources Report Addendum (Alden 2017) and included vegetation mapping as well as surveys for sensitive plant species, QCB, and BUOW. Mapping and surveys for this specific project have included the following (Table 1).

Table 1
SURVEY INFORMATION

Survey Date	Survey Type	Personnel	Survey Time and Weather Conditions (Start/Stop)
11/2017	Confirmation of CVSP vegetation mapping	Greg Mason	N/A
11/2017	Mapping of potential Waters of the U.S., Waters of the State, and City Wetlands	Greg Mason	N/A
02/15/18	Quino Checkerspot Butterfly Survey	Greg Mason (TE-58862A)	1359-1617 30% cloudy, 73°F, wind 0-10 mph/ 20% cloudy, 72°F, wind 0-10 mph
02/20/18		Tara Baxter (TE87004B-0)	1100-1310 Clear, 60°F, wind 7-9 mph/ Clear, 63°F, wind 9-11 mph
02/25/18			1200-1410 Clear, 71°F, wind 7-9 mph/ Clear, 74°F, wind 5-7mph
03/06/18			1200-1425 Clear, 74°F, wind 7-9 mph/ >5% cloudy, 76°F, wind 7-9 mph
03/12/18			1100-1315 65%, 72°F, wind 3-5 mph/ 30%, 74°F, wind 7-9 mph
03/20/18			1100-1300 15% cloudy, 75°F, wind 3-5 mph/ 20% cloudy, 80°F, wind 5-7 mph
03/27/18			0930-1130 Clear, 66°F, wind 2-4 mph/ Clear, 75°F, wind 2-4 mph
04/03/18			1215-1416 Clear, 70°F, wind 3-5 mph/ Clear, 72°F, wind 5-7 mph
04/11/18			0900-1100 10% cloudy, 72°F, wind 2-4 mph/ Clear, 76°F, wind 2-4 mph
04/18/18			1430-1630 Clear, 75°F, wind 2-4 mph/ Clear, 74°F, wind 2-4 mph
04/24/18			1330-1530 20% cloudy, 73°F, wind 7-12 mph/ 10% cloudy, 75°F, wind 3-7 mph
05/04/18			1500-1700 Clear, 91°F, wind 2-5 mph/ Clear, 84°F, wind 2-7 mph

Table 1 (cont.) **SURVEY INFORMATION**			
Survey Date	**Survey Type**	**Personnel**	**Survey Time and Weather Conditions (Start/Stop)**
05/08/18	Quino Checkerspot Butterfly Survey	Tara Baxter (TE87004B-0)	0915-1115 40% cloudy, 63°F, wind 3-7 mph/ 10% cloudy, 74°F, wind 4-8 mph
02/25/18	BUOW Survey	Tara Baxter	0600-0830 Clear, 47°F, wind 4-6 mph/ Clear, 56°F, wind 5-7 mph
05/24/18			0530-0730 100% cloudy, 57°F, wind 1-3 mph/ 100% cloudy, 62°F, wind 1-3 mph
06/19/18			0530-0730 100% cloudy, 58°F, wind 1-2 mph/ 100% cloudy, 66°F, wind 1-4 mph
07/12/18			0600-0800 100% cloudy, 72°F, wind 2-4 mph/ 10% cloudy, 79°F, wind 5-7 mph
04/24/18	Sensitive Plant Survey	Jim Rocks	N/A
07/26/18		Lee Ripma	N/A
11/28/18	Jurisdictional Delineation	Greg Mason	N/A

2.2.1 Vegetation Mapping Confirmation

Alden walked the project site in November 2017 to check existing vegetation conditions against those presented in the CVSP Biological Resources Report Addendum (Alden 2017). Based on the observations, the vegetation mapping in the northern portion of the project site was refined to reflect the current conditions. Additional changes were made to the vegetation mapping based on the subsequent surveys and jurisdictional delineation conducted in 2018. The site also was searched for water holding depressions that could support vernal pool plant and animal species during site survey visits.

2.2.2 Mapping Potential Waters of the U.S., Waters of the State, and City Wetlands

Mapping of potential jurisdictional areas on the project site was performed by Alden in November 2017, and Alden performed a formal jurisdictional delineation of the project site on November 28, 2018. All on-site areas with depressions or drainage channels were evaluated for the presence of federal, State, and City wetlands as well as non-wetland Waters of the U.S. (U.S. Army Corps of Engineers [Corps] jurisdiction) and non-wetland Waters of the State (i.e., streambeds; CDFW jurisdiction) in accordance with current wetland delineation guidelines. The presence of wetland Waters of the U.S. is evaluated using the criteria described in the Wetlands Delineation Manual (Environmental Laboratory 1987) and the Arid West Supplement (Corps 2008). The presence of non-wetland Waters of the U.S. is determined by the presence of bed and bank within unvegetated drainage courses. The presence of wetland Waters of the State is determined by the presence of wetland/riparian vegetation. The presence of non-wetland Waters of the State is determined by the presence of streambeds lacking wetland/riparian vegetation.

City Wetlands, specifically, are defined by the City Municipal Code (Chapter 11, Article 3, Division 1) as areas that are characterized by any of the following summarized conditions.

1. All areas persistently or periodically containing naturally occurring wetland vegetation communities;

2. Areas that have hydric soils or wetland hydrology and lack naturally occurring wetland vegetation communities; and/or

3. Areas lacking wetland vegetation communities, hydric soils, and wetland hydrology due to non-permitted filling of previously existing wetlands.

The definition of City Wetlands, however, is intended to differentiate uplands (terrestrial areas) from wetlands and, furthermore, to differentiate naturally occurring wetland areas from those created by human activities. Except for areas created for the purposes of wetland habitat or resulting from human actions to create open waters or from the alteration of natural stream courses, it is not the intent of the City to regulate artificially created wetlands in historically non-wetland areas unless they have been delineated as wetlands by the Corps and/or CDFW.

2.2.3 Sensitive Species

Sensitive species are those that are considered federal, State, or CNPS rare, threatened, or endangered; MSCP Narrow Endemics; or MSCP Covered Species. For simplicity, "sensitive" may be used throughout this document to refer to any of these categories.

Plant Species

The results of previous surveys for sensitive plant species have been incorporated herein. New sensitive plant surveys are scheduled to occur in April and summer 2018.

Quino Checkerspot Butterfly

USFWS protocol surveys for the QCB were conducted on the project site in 2015, 2016, and 2018. Each survey was conducted in accordance with current (2014) protocol (Table 1). The surveys were conducted by slowly walking (approximately five to ten acres per hour) transects across the site and noting butterflies and/or potential QCB resources present. The entire project site was surveyed; no areas were excluded. Per protocol, the first weekly survey began during the third week of February and was conducted weekly for five continuous weeks. When no QCB were detected during the first five weeks, site visits continued to the end of the season.

Burrowing Owl

BUOW surveys were conducted on the project site in 2014, 2015, 2016, and 2018. All surveys were conducted in accordance with the Staff Report on Burrowing Owl Mitigation (California Department of Fish and Game 2012). The surveys focused on, but were not limited to areas that had potential to contain burrows or to be used by the BUOW as foraging habitat. Areas in the project vicinity that contain potential BUOW habitat include grasslands and disturbed habitat along earthen berms where vegetation is sufficiently open to support burrows. Suitable habitat was

examined by visual inspection while walking approximately parallel transects, with particular attention to any areas along the berms and where rodent activity was suspected.

2.2.4 Survey Limitations

There have been a number of surveys that have been conducted in the past few years to evaluate the presence of sensitive plant and animal species on site. The sensitive species surveys were conducted following prescribed protocols and during the appropriate times of year. For sensitive species not observed or detected, this report also addresses the impacts to those species that have moderate or high potential to occur and includes mitigation should those species be determined to be present.

2.2.5 Nomenclature

Nomenclature used in this report is from the following sources: City Biology Guidelines (City 2012) and the City's MSCP Subarea Plan (City 1997a); Holland (1986); Oberbauer et al. (2008); Hickman, ed. (1993); California Native Plant Society (CNPS; 2017); Crother (2008); American Ornithological Society (2017); Jones, et al. (1992); and CDFW (2017).

3.0 REGULATORY CONTEXT

3.1 REGULATORY ISSUES

Biological resources that would be impacted on the project site are subject to regulatory administration by the federal government, State of California, and City as follows.

3.1.1 Federal

Endangered Species Act

The federal Endangered Species Act (FESA) designates threatened and endangered animals and plants and provides measures for their protection and recovery. "Take" of listed animal species and of listed plant species in areas under federal jurisdiction is prohibited without obtaining a federal permit. Take is defined as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to engage in any such conduct." Harm includes any act that actually kills or injures fish or wildlife, including significant habitat modification or degradation that significantly impairs essential behavioral patterns of fish or wildlife. Activities that damage the habitat of (i.e., harm) listed wildlife species require approval from the USFWS for terrestrial species. The FESA also generally requires determination of Critical Habitat for listed species. If a project would involve a federal action potentially affecting Critical Habitat, the federal agency would be required to consult with USFWS. As noted below in Section 5.5.3, *Sensitive Animal Species*, one federal listed species (coastal California gnatcatcher [CAGN]; *Polioptila californica californica*) has been found on the project site, and QCB surveys have been conducted on site but have not found the federal listed QCB (Table 1). There is no Critical Habitat on the project site or in the off-site impact areas for any listed species.

FESA Section 7 and Section 10 provide two pathways for obtaining authority to take listed species. Under Section 7 of the FESA, a federal agency that authorizes, funds, or carries out a project that "may affect" a listed species or its Critical Habitat must consult with USFWS. Under Section 10 of the FESA, private parties with no federal nexus (i.e., no federal agency will authorize, fund, or carry out the project) may obtain an Incidental Take Permit to harm listed species incidental to the lawful operation of a project. Given that the project is proposing impacts to Corps jurisdiction, there is a clear Section 7 nexus (although the CAGN is an MSCP Covered Species).

Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA; 16 U.S. Code Sections 703-711) includes provisions for protection of migratory birds, including the non-permitted take of migratory birds. The MBTA regulates or prohibits taking, killing, possession of, or harm to migratory bird species listed in Title 50 Code of Federal Regulations Section 10.13. Migratory birds include geese, ducks, shorebirds, raptors, songbirds, and many others. Disturbance that causes nest abandonment and/or loss of reproductive effort (killing or abandonment of eggs or young) is considered a "take." The MBTA is an international treaty for the conservation and management of bird species that migrate through more than one country, and is enforced in the United States by the USFWS. The MBTA was amended in 1972 to include protection for migratory birds of prey (raptors). Avian species protected by the MBTA are present on the project site. As a general/standard condition, the project must comply with the MBTA.

Clean Water Act

Under Section 404 of the Clean Water Act, the Corps is charged with regulating the discharge of dredge and fill materials into jurisdictional Waters of the U.S. The terms "Waters of the U.S." and "jurisdictional waters" have a broad meaning that includes special aquatic sites, such as wetlands. Corps wetland boundaries are determined using three criteria (vegetation, hydrology, and soils) established for wetland delineations, as described within the Wetlands Delineation Manual (Environmental Laboratory 1987) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Corps 2008).

Waters of the U.S., as defined by regulation and refined by case law include: (1) the territorial seas; (2) coastal and inland waters, lakes, rivers, and streams that are navigable Waters of the U.S., including their adjacent wetlands; (3) tributaries to navigable Waters of the U.S., including adjacent wetlands; and (4) interstate waters and their tributaries, including adjacent isolated wetlands and lakes, intermittent and ephemeral streams, prairie potholes, and other waters that are not a part of a tributary system to interstate waters or navigable Waters of the U.S., the degradation or destruction of which could affect interstate commerce.

Section 401 of the Clean Water Act requires that any applicant for a federal license or permit to conduct any activity that may result in a discharge to Waters of the U.S. must obtain a Water Quality Certification, or a waiver thereof, from the state in which the discharge originates. In California, the Regional Water Quality Control Board issues Water Quality Certifications.

3.1.2 State of California

California Environmental Quality Act

Primary environmental legislation in California is found in the CEQA and its implementing guidelines (State CEQA Guidelines), requiring that projects with potential adverse effects or impacts on the environment undergo environmental review. Adverse impacts to the environment are typically mitigated as a result of the environmental review process in accordance with existing laws and regulations. The City is the Lead Agency under the CEQA for the project, and this report is part of that environmental review process.

California Fish and Game Code

California Fish and Game Code provides specific protection and listing for several types of biological resources. Section 1600 of California Fish and Game Code requires a Streambed Alteration Agreement for any activity that would alter the flow, change or use any material from the bed, channel, or bank of any perennial, intermittent, or ephemeral river, stream, and/or lake. Typical activities that require a Streambed Alteration Agreement include excavation or fill placed within a channel, vegetation clearing, structures for diversion of water, installation of culverts and bridge supports, cofferdams for construction dewatering, and bank reinforcement. Notification is required prior to any such activities, and CDFW will issue a Streambed Alteration Agreement with any necessary mitigation to ensure protection of the State's fish and wildlife resources.

Pursuant to California Fish and Game Code Section 3503, it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto. Raptors and owls and their active nests are protected by California Fish and Game Code Section 3503.5, which states that it is unlawful to take, possess, or destroy any birds of prey or to take, possess, or destroy the nest or eggs of any such bird unless authorized by the CDFW. Section 3513 states that it is unlawful to take or possess any migratory non-game bird as designated in the MBTA. These regulations could require that construction activities (particularly vegetation removal or construction near nests) be reduced or eliminated during critical phases of the nesting cycle unless surveys by a qualified biologist demonstrate that nests, eggs, or nesting birds will not be disturbed, subject to approval by CDFW and/or USFWS. Avian species protected by California Fish and Game Code are present on the project site. As a general/standard condition, the project must comply with California Fish and Game Code

Porter-Cologne Water Quality Control Act of 1970

The Porter-Cologne Water Quality Control Act of 1970 grants the State Water Resource Control Board and its regional offices power to protect water quality and is the primary vehicle for implementation of the State's responsibilities under Section 401 of the Clean Water Act. The Porter-Cologne Act grants the State Water Resource Control Board authority and responsibility to adopt plans and policies, regulate discharges to surface and groundwater, regulate waste disposal sites, and require cleanup of discharges of hazardous materials and other pollutants. Typically, the State Water Resource Control Board and Regional Water Quality Control Board act in concert with the Corps under Section 401 of the Clean Water Act in relation to permitting fill of Waters of the U.S.

3.1.3 City of San Diego Environmentally Sensitive Lands Regulations

Mitigation requirements for sensitive biological resources follow the requirements of the City's Biology Guidelines (2012) as outlined in the City's Municipal Code Environmentally Sensitive Lands (ESL) Regulations (Chapter 14, Article 3, Division 1). ESL include sensitive biological resources, steep hillsides, coastal beaches, sensitive coastal bluffs and 100-year floodplains (San Diego Municipal Code [SDMC] 143.0110).

The ESL regulations also specify development requirements inside and outside of the MHPA. The MHPA has been designated in the northwest portion of the project site. Inside the MHPA, development must be located in the least sensitive portion of a given site; outside of the MHPA, development must avoid City Wetlands and non-MSCP Covered Species (City 2012). The ESL regulations further require that impacts to sensitive biological resources must be assessed and mitigation provided where necessary, as required by Section III of the City's biology guidelines. The MHPA is further discussed in Section 4.0, *Regional Context.*

The project will comply with City ESL regulations, including the placement of a covenant of easement over non-impacted ESL areas of the site.

Biology Guidelines

The City's Biology Guidelines (2012) have been formulated by the Development Services Department to aid in the implementation and interpretation of the ESL Regulations; San Diego Land Development Code, Chapter 14, Division 1, Section 143.0101 et seq; and the Open Space Residential (OR-1-2) Zone, Chapter 13, Division 2, Section 131.0201 et seq. Section III of the Biology Guidelines (Biological Impact Analysis and Mitigation Procedures) also serves as standards for the determination of impact and mitigation under CEQA. The Biology Guidelines are the baseline biological standards for processing permits issued pursuant to ESL Regulations.

4.0 REGIONAL CONTEXT

4.1 MULTIPLE SPECIES CONSERVATION PROGRAM SUBAREA PLAN

The City, USFWS, CDFW, other local jurisdictions, and members of the environmental and building and development communities joined together in the late 1990s to develop the MSCP, a comprehensive program to preserve a network of habitat and open space in the region and ensure the viability of (generally) upland habitat and species that is compatible with growth and development.

The City's MSCP Subarea Plan (1997a) was prepared pursuant to the outline developed by USFWS and CDFW to meet the requirements of the State Natural Communities Conservation Planning (NCCP) Act of 1992. Adopted by the City in March 1997, the City's Subarea Plan forms the basis for the MSCP Implementing Agreement, which is the contract between the City, USFWS, and CDFW (City 1997b). The Implementing Agreement ensures implementation of the City's Subarea Plan and thereby allows the City to issue "take" permits under the FESA and State Endangered Species Act to address impacts at the local level. Under the FESA, an Incidental Take Permit is required when non-federal activities would result in "take" of a threatened or endangered species. A Habitat Conservation Plan, such as the City's Subarea Plan,

must accompany an application for a federal Incidental Take Permit. In July 1997, the USFWS, CDFW, and City entered into the 50-year MSCP Implementing Agreement, wherein the City received its FESA Section 10(a) Incidental Take Permit (City 1997b).

Pursuant to its MSCP permit issued under Section 10(a), the City has incidental "take" authority over 85 rare, threatened, and endangered species including regionally sensitive species that it aims to conserve (i.e., "MSCP Covered Species"). "MSCP Covered" refers to species that are covered by the City's federal Incidental Take Permit and considered to be adequately protected within the City's Preserve, the MHPA. Special conditions apply to Covered Species that would be potentially impacted including, for example, designing a project to avoid impacts to Covered Species in the MHPA where feasible. Outside the MHPA, projects must incorporate measures (i.e., Area Specific Management Directives) for the protection of Covered Species as identified in Appendix A of the City's Subarea Plan.

In addition to identifying preserve areas within the City (and guiding implementation of the MSCP within its corporate boundaries), the City's Subarea Plan also regulates effects on natural communities throughout the City. Additional discussion of the MHPA as it relates to the project site is provided in Section 4.1.1, *Multi-habitat Planning Area*.

4.1.1 Multi-habitat Planning Area

The MHPA was developed by the City in cooperation with the USFWS, CDFW, property owners, developers, and environmental groups using the Preserve Design Criteria contained in the MSCP Plan, and the City Council-adopted criteria for the creation of the MHPA.

MHPA lands are large blocks of native habitat that have the ability to support a diversity of plant and animal life and, therefore, have been included within the City's Subarea Plan for conservation. The MHPA also delineates core biological resource areas and corridors targeted for conservation as these lands have been determined to provide the necessary habitat quality, quantity, and connectivity to sustain the unique biodiversity of the San Diego region. The City's MSCP Subarea Plan calls for 75 percent preservation of private lands within the MHPA, which allows for development on the remaining 25 percent subject to the requirements of the MSCP Plan. Approximately 3.7 acres of the project site occurs within the MHPA. The area of the project site within the MHPA supports Diegan coastal sage scrub, Diegan coastal sage scrub-disturbed, non-native grassland, and disturbed land (Figure 3).

Section 1.5.3 of the City's MSCP Subarea Plan contains requirements and goals for all the MHPA areas within Otay Mesa. There is one policy that could be relevant to the project site as follows:

Priority 1:

1. No unauthorized motorized vehicles except Border Patrol, MHPA (preserve) managers, maintenance personnel, or emergency vehicles will be allowed on any trails or off-trail in the MHPA. The Border Patrol should restrict use to the existing access roads as much as feasible to avoid disturbance of habitat.

   The project would be required to install a permanent barrier to deter public access from the MHPA.

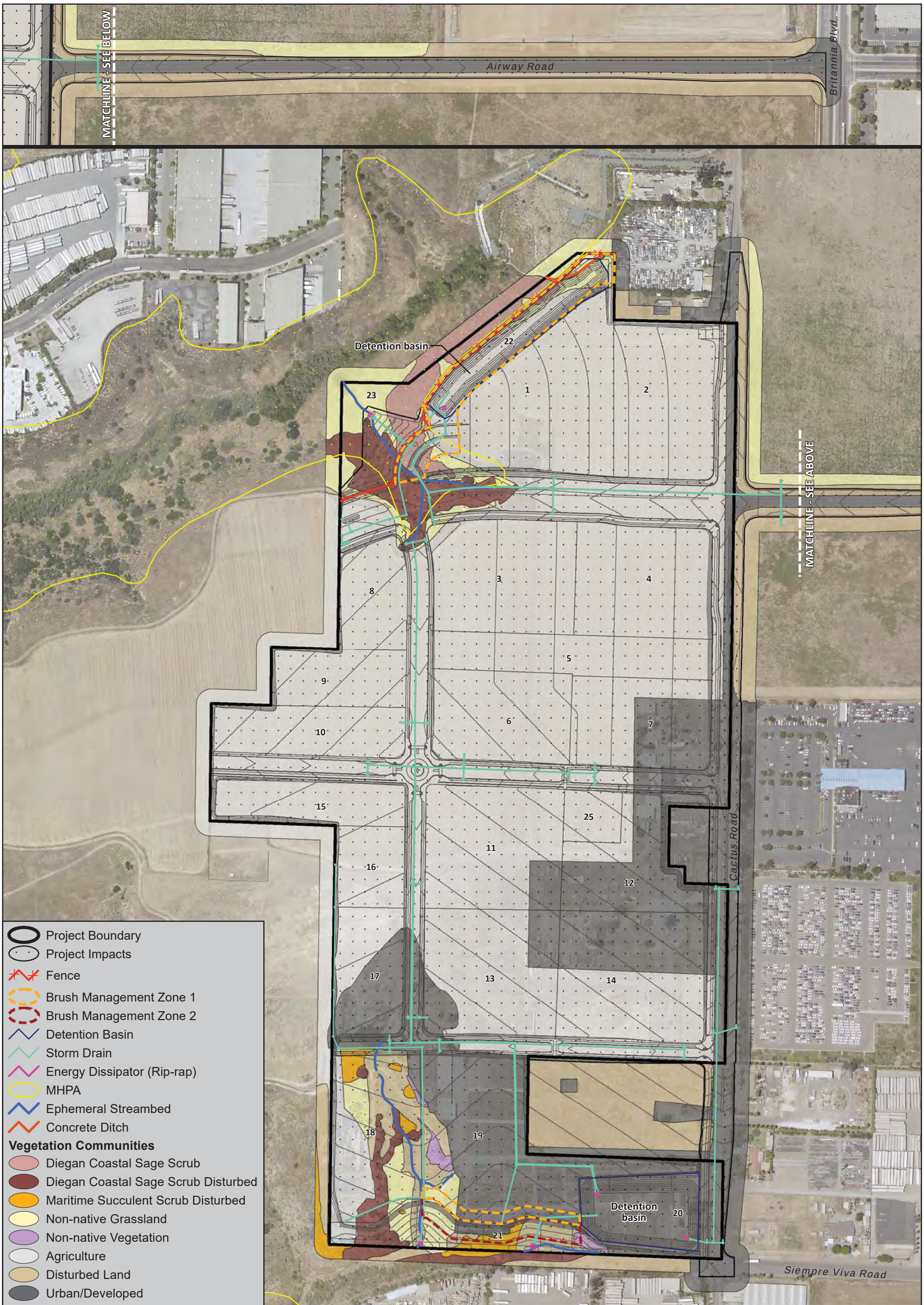


Figure 3

Vegetation Communities/Impacts

LUMINA TENTATIVE MAP PROJECT

4.1.2 Land Use Adjacency Guidelines

Development adjacent to the MHPA must ensure that indirect impacts to the MHPA are minimized. Section 1.4.3 of the City's Subarea Plan outlines the requirements to address indirect effects related to drainage and toxics, lighting, noise, public access, invasive plant species, brush management, and grading/land development. Because the project includes development adjacent to the MHPA, conformance with the adjacency guidelines would be required as discussed in Section 6.1, *Land Use Adjacency Guidelines*.

5.0 SURVEY RESULTS

5.1 PHYSICAL CHARACTERISTICS

The project site is primarily flat and irregularly shaped and consists largely of agricultural land. Sloping topography is present where canyons occur in the northwest and southwest portions of the site. These canyons support the only native or naturalized vegetation on the site. Elevations on site range from approximately 415 feet above mean sea level (amsl) in the northern canyon and 515 feet amsl along Cactus Road. The soil types on site consist of Stockpen gravelly clay loam (two to five percent slopes) and Olivenhain cobbly loam (two to nine and 30 to 50 percent slopes; Bowman 1973).

Previous uses of the site are agricultural. The site is bounded to the west by agricultural and undeveloped land; to the north by undeveloped land and an auto transport facility; to the east by Cactus Road, agricultural land, an auto auction facility, and old horse stables; and to the south by undeveloped land and several commercial businesses.

5.2 VEGETATION COMMUNITIES/LAND COVER TYPES

Seven vegetation communities and one land cover type occur on the project site and/or in the off-site impact areas (Figure 3). Table 2 presents a list of these communities/cover type and their respective acreage totals.

Table 2 EXISTING VEGETATION COMMUNITIES/LAND COVER TYPES[1]				
Vegetation Community/ Land Cover Type	**On Site**		**Off Site**	**Total**
	Outside the MHPA	**Inside the MHPA**		
Upland Vegetation				
Maritime succulent scrub disturbed (Tier I)	0.5	--	--	0.5
Diegan coastal sage scrub (Tier II)	0.2	1.3	--	1.5
Diegan coastal sage scrub-disturbed (Tier II)	1.7	1.1	--	2.8
Non-native grassland (Tier IIIB)	2.6	1.1	--	3.7
Other Upland Vegetation				
Non-native vegetation (Tier IV)	0.3	--	--	0.3
Agriculture (Tier IV)	61.5	0.2	--	61.7
Disturbed land (Tier IV)	2.3	--	3.6	5.9
Land Cover				
Urban/Developed (NA)	20.6	--	5.2	25.8
TOTAL	**89.7**	**3.7**	**8.8**	**102.2**

[1]Upland vegetation communities and some other areas within the MSCP study area have been divided into tiers of sensitivity. Tier I = rare upland. Tier II = uncommon upland. Tier IIIB = common upland. Tier IV = other upland. Tier I communities are the most sensitive and Tier IV communities are the least sensitive based on rarity and ecological importance (City 2012). Tier level, in part, determines mitigation ratios (see Section 8.2.1, *Mitigation for Direct Impacts to Upland Vegetation Communities*, for more information.

5.2.1 Upland Vegetation

Maritime Succulent Scrub-Disturbed

Maritime succulent scrub is a low, open scrub community dominated by a mixture of stem and leaf succulent and drought-deciduous species that occur within sage scrub communities. This plant association occurs on thin rocky or sandy soils, on steep slopes of coastal headlands, and bluffs. Maritime succulent scrub is restricted to within a few miles of the coast from about Torrey Pines to Baja California, Mexico and on San Clemente and Catalina islands. Some plant species observed within this community on site include coast cholla (*Cylindropuntia prolifera*), San Diego County sunflower (*Bahiopsis laciniata*), and California sagebrush (*Artemisia californica*). This community is considered disturbed because trails have been created in the habitat, and it has been used as a dumping area for agricultural waste. Maritime succulent scrub occupies the City's highest level of sensitivity (Tier I) for upland habitats (City 2012).

Diegan coastal sage scrub (including -disturbed)

Diegan coastal sage scrub is the southern form of coastal sage scrub comprised of low-growing, aromatic, drought-deciduous, soft-woody shrubs that have an average height of approximately three to four feet. Diegan coastal sage scrub is typically dominated by facultatively drought deciduous species such as California sagebrush, California buckwheat, laurel sumac (*Malosma laurina*), and black sage (*Salvia mellifera*). Diegan coastal sage scrub-disturbed contains many of the same shrub species as the undisturbed community but is sparser and has a higher proportion of non-native, annual species. Some species in Diegan coastal sage scrub on site California sagebrush, California buckwheat (*Eriogonum fasciculatum*), San Diego County sunflower, and San Diego barrel cactus (*Ferocactus viridescens*). Diegan coastal sage scrub disturbed is so because trails have been created in the habitat, and it has been used as a dumping area for agricultural waste. Diegan coastal sage scrub (including -disturbed) are Tier II (uncommon upland) communities (City 2012).

Non-Native Grassland

Non-native grassland is a dense to sparse cover of non-native grasses, sometimes associated with species of showy-flowered, native, annual forbs (Holland 1986). This community characteristically occurs on gradual slopes with deep, fine-textured, usually clay soils. Characteristic species on site include oats (*Avena* spp.), red brome (*Bromus madritensis* ssp. *rubens*), and ripgut grass (*Bromus diandrus*). Most of the annual, introduced species that comprise the majority of species and biomass within non-native grassland originated from the Mediterranean region, an area with a long history of agriculture and a climate similar to California. These two factors, in addition to intensive grazing and agricultural practices in conjunction with droughts, contributed to the successful invasion and establishment of these species. These grasslands are common throughout San Diego County and serve as valuable raptor foraging habitat. Non-native grasslands are recognized as a Tier IIIB upland habitat (common upland) by the City.

5.2.2 Other Upland

Non-native Vegetation

Non-native vegetation consists of non-native plant species, including ornamental and/or, sometimes, invasive species. Characteristic species in this community on site include crystalline iceplant (*Mesembryanthemum crystallinum*), Mission fig (*Opuntia ficus-indica*), and salt cedar (*Tamarix ramosissima*). Non-native vegetation is considered Tier IV (other uplands) by the City.

Agriculture

Agriculture includes both active and inactive agricultural land. Agriculture is considered Tier IV (other uplands) by the City.

Disturbed Land

Disturbed land includes land cleared of vegetation, land containing a preponderance of non-native plant species, or land showing signs of past or present usage that no longer provides viable wildlife habitat. Such areas include dirt roads, graded areas, and dump sites where no native or naturalized species remain. Some of the non-native species of disturbed habitat on site include tree tobacco (*Nicotiana glauca*), cheeseweed (*Malva parviflora*), and Australian tumbleweed (*Salsola australis*). Disturbed habitat is considered Tier IV (other uplands) by the City.

5.2.3 Land Cover

Urban/Developed

Urban/developed land is, for example, where permanent structures and/or pavement have been placed, which prevents the growth of vegetation, or where landscaping is clearly tended and maintained. Urban/developed is not assigned to a Tier by the City.

5.3 PLANT SPECIES OBSERVED

One-hundred seven species of plants have been observed on site. A list of these plant species is presented in Appendix A.

5.4 ANIMAL SPECIES OBSERVED OR DETECTED

Seventy-one species of animals have been observed or detected on site. A list these animal species is presented in Appendix B.

5.5 SENSITIVE BIOLOGICAL RESOURCES

According to City Municipal Code (Chapter 11, Article 3, Division 1) and the City's Biology Guidelines (City 2012), sensitive biological resources refers to upland and/or wetland areas that meet any one of the following criteria:

(a) Lands that have been included in the City's MSCP Preserve (i.e., the MHPA);

(b) Wetlands;

(c) Lands outside the MHPA that contain Tier I, Tier II, Tier IIIA, or Tier IIIB habitats;

(d) Lands supporting species or subspecies listed as rare, endangered, or threatened under Section 670.2 or 670.5, Title 14, California Code of Regulations, or the FESA, Title 50, Code of Federal Regulations, Section 17.11 or 17.12, or candidate species under the California Code of Regulations;

(e) Lands containing habitats with MSCP Narrow Endemic species as listed in the Biology Guidelines (City 2012); or

(f) Lands containing habitats of MSCP Covered Species as listed in the Biology Guidelines (City 2012).

5.5.1 Sensitive Vegetation Communities

Additionally, sensitive vegetation communities are those considered rare within the region or sensitive by CDFW (Holland 1986) and/or the City. These communities, in any form (e.g., disturbed), are considered sensitive because they have been historically depleted, are naturally uncommon, or support sensitive species. The project site supports four sensitive vegetation communities: maritime succulent scrub-disturbed, Diegan coastal sage scrub, Diegan coastal sage scrub-disturbed, and non-native grassland.

5.5.2 Sensitive Plant Species

Sensitive plant species are those that are considered federal, State, or CNPS rare, threatened, or endangered; MSCP Covered Species; or MSCP Narrow Endemic species. More specifically, if a species is designated with any of the following statuses (a-c below), it is considered sensitive per City Municipal Code (Chapter 11, Article 3, Division 1):

(a) A species or subspecies is listed as rare, endangered, or threatened under Section 670.2 or 670.5, Title 14, California Code of Regulations, or the FESA, Title 50, Code of Federal Regulations, Section 17.11 or 17.12, or candidate species under the California Code of Regulations;

(b) A species is a Narrow Endemic as listed in the Biology Guidelines in the Land Development Manual (City 2012); and/or

(c) A species is a Covered Species as listed in the Biology Guidelines in the Land Development Manual (City 2012).

A species may also be considered sensitive if it is included in the CNPS Inventory of Rare and Endangered Plants (CNPS 2017). California Rare Plant Rank 1 includes plants that are rare, threatened or endangered in California. California Rare Plant Rank 2 includes plants that are rare, threatened or endangered in California but more common elsewhere. California Rare Plant Rank 3 includes plants that are eligible for State listing as rare, threatened or endangered. California Rare Plant Rank 4 plants are locally significant but few, if any, are eligible for State listing.

Sensitive plant status is often based on one or more of three distributional attributes: geographic range, habitat specificity, and/or population size. A species that exhibits a small or restricted geographic range (such as those endemic to the region) is geographically rare. A species may be more or less abundant but occur only in very specific habitats. Lastly, a species may be widespread but exists naturally in small populations.

Six sensitive plant species were observed on site or in an area mapped off-site: South Coast saltscale (*Atriplex pacifica*), San Diego barrel cactus (*Ferocactus viridescens*), San Diego bursage (*Ambrosia chenopodiifolia*), San Diego County sunflower (*Bahiopsis laciniata*), seaside calandrinia (*Cistanthe maritima*), and small-flowered morning glory (*Convolvulus simulans*; Figures 4a and 4b).

South Coast saltscale (*Atriplex pacifica*)
Sensitivity: CNPS Rare Plant Rank 1B.2 (see footnote 2 in Table 3)
Distribution: California, Arizona, and Baja California and Sonora, Mexico.
Habitat(s): Coastal bluff scrub, coastal dunes, coastal scrub, and playas.
Presence off site: Three individual plants were observed in the area mapped outside the off-site Airway Road impact area.

San Diego barrel cactus (*Ferocactus viridescens*)
Sensitivity: CNPS Rare Plant Rank 2B.1; MSCP Covered Species (see footnote 2 in Table 3)
Distribution: San Diego County and Baja California, Mexico.
Habitat(s): Dry slopes in sage scrub habitats.
Presence on site: Six San Diego barrel cacti were observed on site in the MHPA, and 130 San Diego barrel cacti were observed on site outside the MHPA.

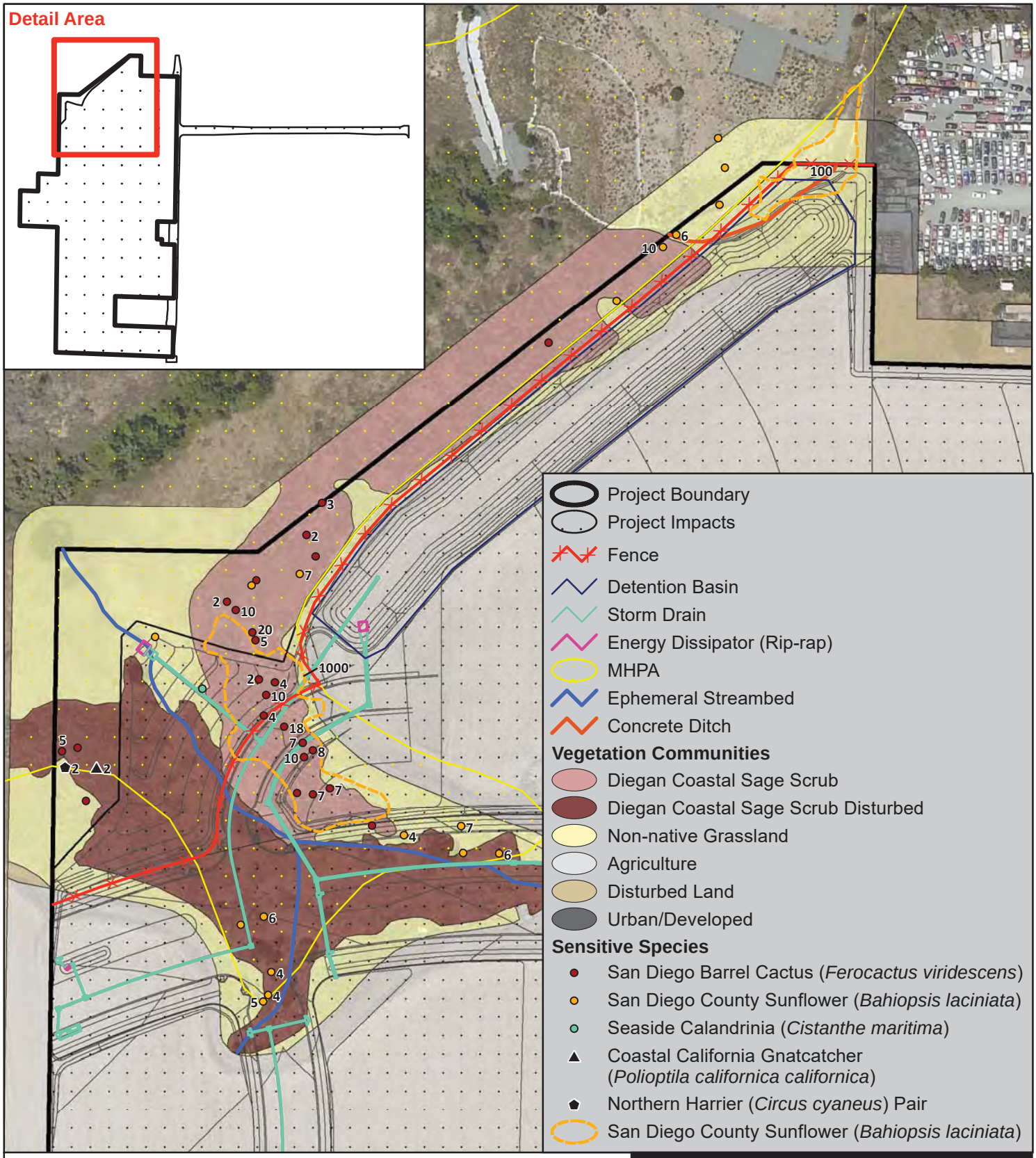
San Diego bur-sage (*Ambrosia chenopodiifolia*)
Sensitivity: CNPS Rare Plant Rank 2B.1 (see footnote 2 in Table 3)
Distribution: Southwestern San Diego County, Arizona, and Mexico below 600 feet in elevation.
Habitat(s): Dry, sunny hillsides in coastal sage scrub and maritime succulent scrub.
Presence on site: Four San Diego bur-sage plants were found on site outside the MHPA.

San Diego County sunflower (*Bahiopsis laciniata*)
Sensitivity: CNPS Rare Plant Rank 4.2 (see footnote 2 in Table 3)
Distribution: Southern coastal and foothill San Diego County and Baja California, Mexico.
Habitat(s): Open coastal sage scrub and maritime succulent scrub on a variety of soil types.
Presence on site: Sixty-seven San Diego County sunflower plants were observed on site in the MHPA. Eighteen additional plants were observed outside the MHPA on site.

Seaside calandrinia (*Cistanthe maritima*)
Sensitivity: CNPS Rare Plant Rank 4.2 (see footnote 2 in Table 3)
Distribution: Coastal southern California and Baja, California, Mexico
Habitat(s): Chaparral and sage scrub habitats.
Presence on site: One seaside calandrinia plant was found in the MHPA on site.

Small-flowered morning glory (*Convolvulus simulans*)
Sensitivity: CNPS Rare Plant Rank 4.2 (see footnote 2 in Table 3)
Distribution: Scattered locations from the foothills to the coast in southern California and Baja California, Mexico.
Habitat(s): Clay areas in openings of coastal chaparral, sage scrub, and grasslands.
Presence on site: Four small-flowered morning glory plants were found outside the MHPA on site.

Sensitive plant species that were not observed but may have potential to occur on site (based on, for example, habitat types and soils present) are listed in Table 3.



These two sensitive species were observed during surveys in 2018 as follows: California Horned Lark (*Eremophila alpestris actia*) throughout agriculture on site and Sharp-shinned Hawk (*Accipiter striatus*) flying overhead. These two sensitive species were observed on site during previous surveys in 2015/2016 but not mapped: Orange-throated Whiptail (*Aspidoscelis hyperythra*) and Cooper's hawk (*Accipiter cooperii*).

N
W E
S

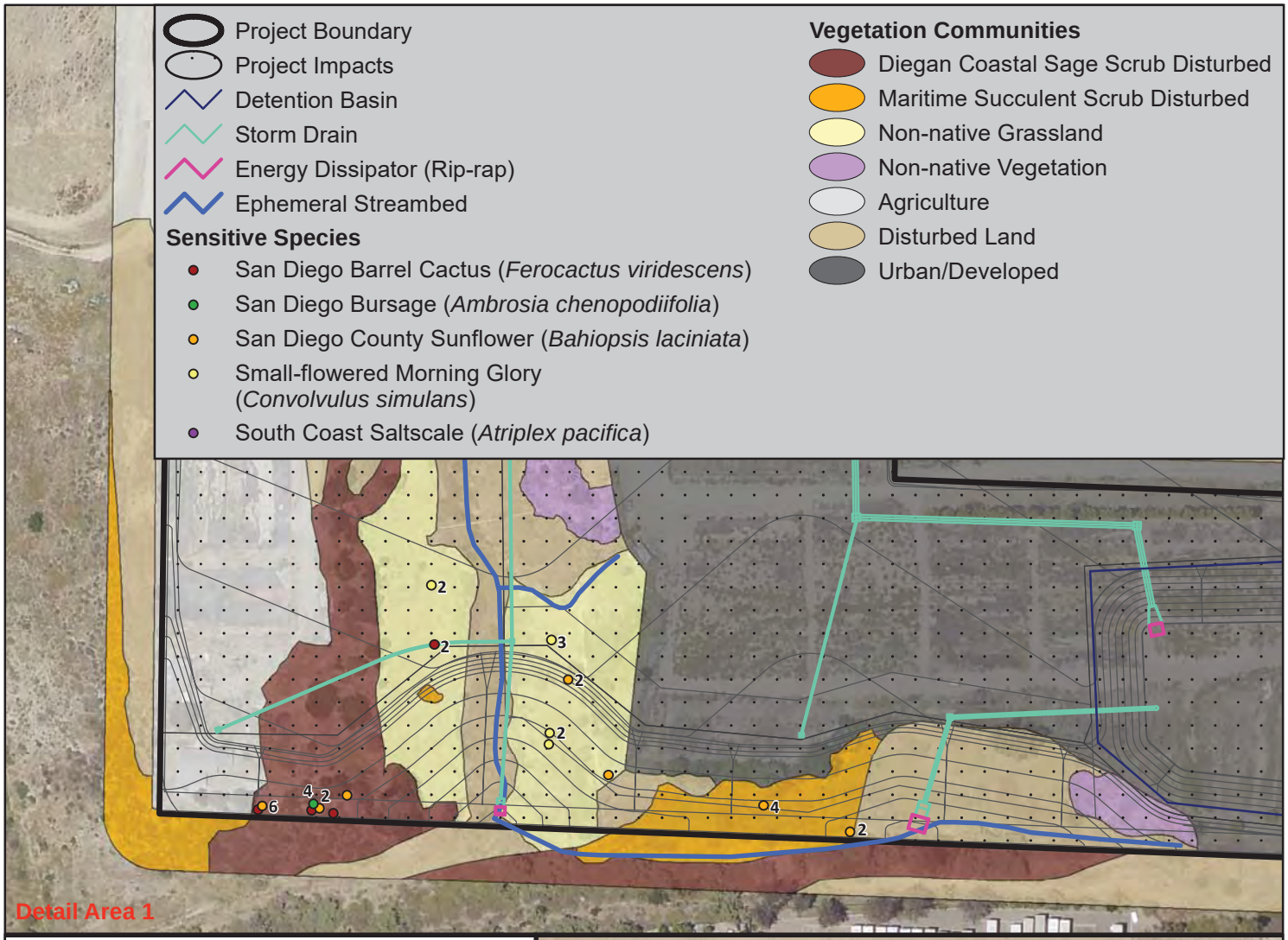
0 75 150 Feet

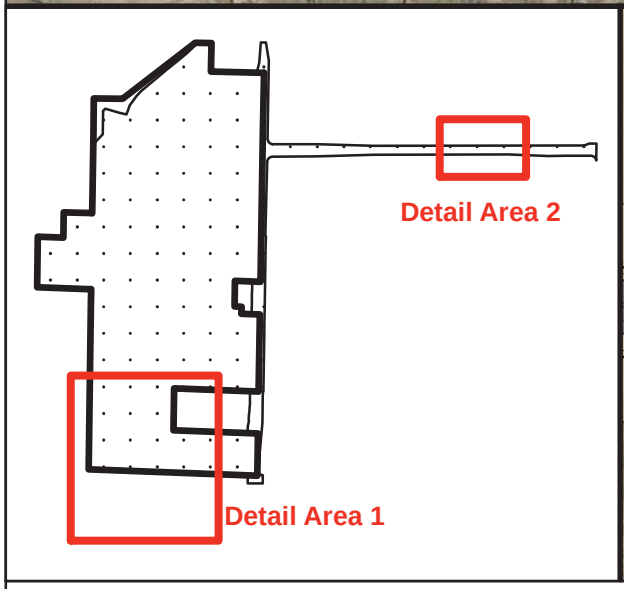
ALDEN ENVIRONMENTAL, INC

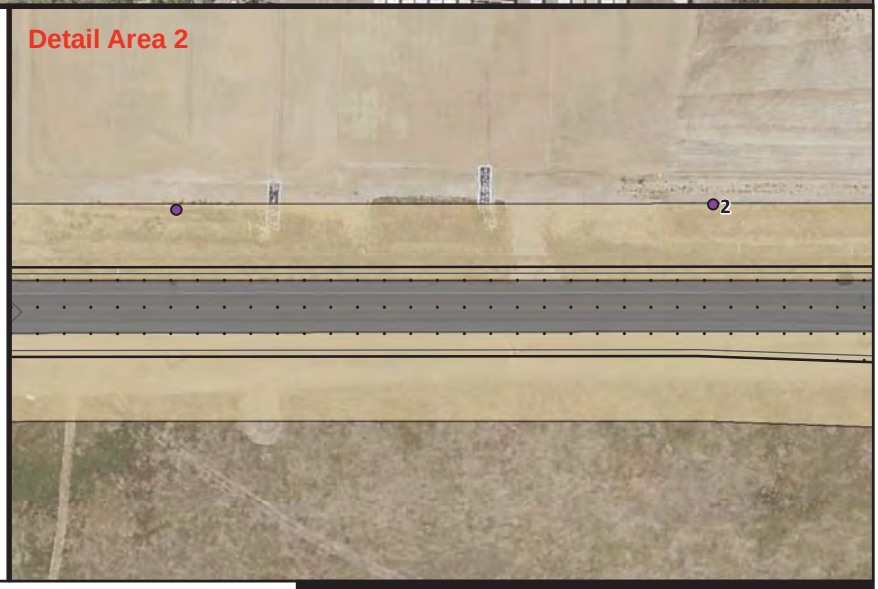
Figure 4a

Sensitive Species/Impacts

LUMINA TENTATIVE MAP PROJECT







These two sensitive species were observed during surveys in 2018 as follows: California Horned Lark (*Eremophila alpestris actia*) throughout agriculture on site and Sharp-shinned Hawk (*Accipiter striatus*) flying overhead. These two sensitive species were observed on site during previous surveys in 2015/2016 but not mapped: Orange-throated Whiptail (*Aspidoscelis hyperythra*) and Cooper's hawk (*Accipiter cooperii*).

N W E S

0 75 150 Feet

ALDEN ENVIRONMENTAL, INC

Figure 4b

Sensitive Species/Impacts

LUMINA TENTATIVE MAP PROJECT

Table 3 SENSITIVE PLANT SPECIES AND THEIR POTENTIAL TO OCCUR[1]				
Common Name **(Scientific Name)**	**Listing or Sensitivity[2]** **Federal/State** **CNPS** **City**	**Habitat(s)/ Distribution**	**Bloom Period**	**Presence or Potential to Occur**
Aphanisma (*Aphanisma blitoides*)	--/-- 1B.2 MSCP Covered, NE			Not expected. No known populations in MSCP Plan Area.
Ashy spike-moss (*Selaginella cinerascens*)	--/-- 4.1 --	Found on flat mesas in coastal sage scrub and chaparral in Orange and San Diego counties and northwestern Baja California, Mexico.	--	Moderate
California adolphia (*Adolphia californica*)	--/-- 2B.1 --	Occurs in chaparral, valley grassland, and coastal sage scrub in Los Angeles and San Diego counties.	December to May	Low. A perennial shrub that would have been observed if present.
California Orcutt grass (*Orcuttia californica*)	FT/SE 1B.1 Vernal Pool HCP Covered	Occurs within and adjacent to vernal pools in Riverside, San Diego, Ventura, and Los Angeles counties, as well as Baja California, Mexico.	April to August	Very low. Potential habitat is not present.
Cliff spurge (*Euphorbia misera*)	--/-- 2B.2 --	Occurs on sea bluffs in maritime sage scrub. Occurs from Corona Del Mar south to Baja California, Mexico.	December to October	Low. A perennial shrub that would have been observed if present.
Coastal dunes milk-vetch (*Astragalus tener* var. *titi*)	FE/SE 1B.1 MSCP Covered, NE			Not expected. Occurs in sandy places along the coast, including coastal dunes. Not known from project vicinity.

Table 3 (cont.) **SENSITIVE PLANT SPECIES AND THEIR POTENTIAL TO OCCUR[1]**				
Common Name **(Scientific Name)**	**Listing or Sensitivity[2]** **Federal/State** **CNPS** **City**	**Habitat(s)/ Distribution**	**Bloom Period**	**Presence or Potential to Occur**
Decumbent goldenbush (*Isocoma menziesii* var. *decumbens*)	--/-- 1B.2 --	Occurs in chaparral and coastal scrub, often in sandy, disturbed areas. Found in Orange and San Diego counties; Baja California, Mexico; and San Clemente and Santa Catalina islands.	April to November	Low. A perennial shrub that would have been observed if present.
Encinitas baccharis (*Baccharis vanessae*)	FT/SE 1B.1 MSCP Covered, NE			Not expected. Not known from near the project vicinity.
Golden-spined cereus (*Bergerocactus emoryi*)	--/-- 2B.2 --	Occurs in sandy soils and dry bluffs along the coast in association with maritime succulent scrub in coastal San Diego County; Baja California, Mexico; and San Clemente and Catalina islands.	May to June	Low. A perennial stem succulent that would have been observed if present.
Little mousetail (*Myosurus minimus* ssp. *apus*)	--/-- 3.1 --	Vernal pools and alkaline marshes in Riverside, San Bernardino, San Diego, and additional central California counties; Oregon; and Baja California, Mexico.	March to June	Very low. Potential habitat is not present.
Nuttall's scrub oak (*Quercus dumosa*)	--/-- 1B.1 --	Occurs in coastal southern California from near Point Conception in Santa Barbara County south into northern Baja California, Mexico.	February to August	Low. A perennial shrub that would have been observed if present.

Table 3 (cont.) **SENSITIVE PLANT SPECIES AND THEIR POTENTIAL TO OCCUR[1]**				
Common Name **(Scientific Name)**	**Listing or Sensitivity[2]** **Federal/State** **CNPS** **City**	**Habitat(s)/ Distribution**	**Bloom Period**	**Presence or Potential to Occur**
Orcutt's bird's-beak (*Dicranostegia orcuttiana* [*Cordylanthus orcuttianus*])	--/-- 2B.1 MSCP Covered	Found in coastal scrub in southwestern San Diego County near Otay, Chula Vista, and Imperial Beach. Also found in Baja California, Mexico.	March to September	Low. Sensitive plant species surveys were conducted during the bloom period for this species, and it was not observed.
Orcutt's brodiaea (*Brodiaea orcuttii*)	--/-- 1B.1 MSCP Covered	Occurs in vernal pools and ephemeral streams and seeps, usually associated with clay soils. Found in Riverside and San Bernardino counties south to Baja California, Mexico.	May to July	Very low. Potential habitat is not present.
Otay mesa mint (*Pogogyne nudiuscula*)	FE/SE 1B.1 Vernal Pool HCP Covered	Occurs within and adjacent to vernal pools on Otay Mesa.	May to July	Very low. Potential habitat is not present.
Otay tarplant (*Deinandra conjugens*)	FT/SE 1B.1 MSCP Covered, NE	Occurs in disturbed areas and patches of coastal sage scrub in the Otay Mesa area.	April to June	Low. This species was the primary focus of the sensitive plant species surveys conducted in 2016, and it was not observed.
San Diego ambrosia (*Ambrosia pumila*)	FE/-- 1B.1 MSCP Covered, NE	Found in disturbed areas within chaparral, coastal sage scrub, and grasslands. Its range includes San Diego and Riverside counties south to Baja California, Mexico.	April to October	Low. Sensitive plant species surveys were conducted during the bloom period of this species from 2014 through 2016, and it was not observed.

Table 3 (cont.) **SENSITIVE PLANT SPECIES AND THEIR POTENTIAL TO OCCUR[1]**				
Common Name **(Scientific Name)**	**Listing or Sensitivity[2]** **Federal/State** **CNPS** **City**	**Habitat(s)/ Distribution**	**Bloom Period**	**Presence or Potential to Occur**
San Diego button-celery (*Eryngium aristulatum* var. *parishii*)	FE/SE 1B.1 Vernal Pool HCP Covered	Occurs in vernal pools or mima mound areas with vernally moist conditions in San Diego and Riverside counties and Baja California, Mexico.	April to June	Very low. Potential habitat is not present.
San Diego goldenstar (*Bloomeria* [*Muilla*] *clevelandii*)	--/-- 1B.1 MSCP Covered	Found on clay soils in chaparral, coastal scrub, vernal pools, and valley and foothill grassland in Riverside and San Diego counties.	May	Low. Sensitive plant species surveys were conducted during the bloom period of this species from 2014 through 2016, and it was not observed.
San Diego mesa mint (*Pogogyne abramsii*)	FE/SE 1B.1 Vernal Pool HCP Covered			Not expected. Project site is outside the species' range.
San Diego thornmint (*Acanthomintha ilicifolia*)	FT/SE 1B.1 MSCP Covered, NE	Occurs on clay lenses in grassy openings in chaparral or sage scrub. Prefers friable or broken, clay soils. Range limited to coastal areas of San Diego County and Baja California, Mexico.	April to June	Low. Sensitive plant species surveys were conducted during the bloom period of this species from 2014 through 2016, and it was not observed.
Shaw's agave (*Agave shawii*)	--/-- 2B.1 MSCP Covered, NE			Very low. A perennial leaf succulent that would have been observed if present.

Table 3 (cont.) **SENSITIVE PLANT SPECIES AND THEIR POTENTIAL TO OCCUR[1]**				
Common Name **(Scientific Name)**	**Listing or Sensitivity[2]** **Federal/State** **CNPS** **City**	**Habitat(s)/ Distribution**	**Bloom Period**	**Presence or Potential to Occur**
Short-leaved dudleya (*Dudleya brevifolia*)	SE 1B.1 MSCP Covered, NE			Not expected. Occurs on dry, sandstone bluffs in chamise chaparral that do not occur on site.
Small-leaved rose (*Rosa minutifolia*)	--/SE 2B.1 MSCP Covered	Habitat includes chaparral and coastal scrub. Presently known in California from only one occurrence on Otay Mesa.	January to June	Low. A perennial shrub that would have been observed if present.
Snake cholla (*Cylindropuntia californica* var. *californica*)	--/-- 1B.1 MSCP Covered, NE	Found in open patches in coastal sage scrub, primarily in southern portion of San Diego County and in Florida Canyon.	April to May	Low. A perennial stem succulent that would have been observed if present.
Spreading navarretia (*Navarretia fossalis*)	FT/-- 1B.1 Vernal Pool HCP Covered	Occurs in marshes and swamps (assorted freshwater habitats), playas, and vernal pools in western Riverside and southwestern San Diego counties, as well as northwestern Baja California, Mexico.	April to June	Very low. Potential habitat is not present.

Table 3 (cont.) **SENSITIVE PLANT SPECIES AND THEIR POTENTIAL TO OCCUR[1]**				
Common Name **(Scientific Name)**	**Listing or Sensitivity[2]** **Federal/State** **CNPS** **City**	**Habitat(s)/ Distribution**	**Bloom Period**	**Presence or Potential to Occur**
Variegated dudleya (*Dudleya variegata*)	--/-- 1B.2 MSCP Covered, NE	Occurs on dry hillsides and mesas in chaparral, coastal sage scrub, grasslands, and near vernal pools. Ranges from San Diego County south to Baja California, Mexico.	April to June	Low. Sensitive plant species surveys were conducted during the bloom period of this species from 2014 through 2016, and it was not observed.

[1] List includes all MSCP Narrow Endemic (NE) species.

[2] **Federal**
FE – Federal listed endangered
FT – Federal listed threatened

State
SE – State listed endangered

CNPS (California Native Plant Society) Rare Plant Rank
1B – Rare, threatened, or endangered in California and elsewhere
2B – Rare, threatened, or endangered in California but more common elsewhere
3 – More information is needed – a review list
4 – Limited distribution – a watch list
.1 – Seriously threatened in California (over 80 percent of occurrences threatened/high degree and immediacy of threat)
0.2 – Moderately threatened in California (20 to 80 percent of occurrences threatened/moderate degree and immediacy of threat

City
MSCP Covered - Species for which the City has take authorization under its MSCP Subarea Plan (City 1997). For species listed as "Not Presently Covered," see footnote 3.

NE - Some native species (primarily plants with restricted geographic distributions, soil affinities, and/or habitats) are referred to as a Narrow Endemic species. The City specifies measures in its MSCP Subarea Plan to ensure that impacts to Narrow Endemics are avoided to the maximum extent practicable.

Vernal Pool HCP Covered - The Vernal Pool Habitat Conservation Plan is a conservation plan for vernal pools and seven threatened and endangered species that do not have federal coverage under the City's MSCP Subarea Plan. This plan was developed using the requirements of a Habitat Conservation Plan under Section 10(a)(1)(B) of the federal Endangered Species Act as the basis for take authorization for the seven covered vernal pools species (i.e., covered species).

5.5.3 Sensitive Animal Species

Sensitive animal species are those that are considered federal or State threatened or endangered; MSCP Covered Species; or MSCP Narrow Endemic species. More specifically, if a species is designated with any of the following statuses (a-c below), it is considered sensitive per City Municipal Code (Chapter 11, Article 3, Division 1):

(a) A species or subspecies is listed as endangered or threatened under Section 670.2 or 670.5, Title 14, California Code of Regulations, or the FESA, Title 50, Code of Federal Regulations, Section 17.11 or 17.12, or candidate species under the California Code of Regulations;

(b) A species is a Narrow Endemic as listed in the Biology Guidelines in the Land Development Manual (City 2012); and/or

(c) A species is a Covered Species as listed in the Biology Guidelines in the Land Development Manual (City 2012).

A species may also be considered sensitive if it is included on the CDFW Special Animals List (CDFW 2017) as a State Species of Special Concern, State Watch List species, State Fully Protected species, or federal Bird of Conservation Concern.

Six sensitive animal species were observed on site as described below and/or shown on Figures 4a and 4b.

Orange-throated whiptail (*Aspidoscelis hyperythra*)
Sensitivity: State Watch List; MSCP Covered (see footnote 1 in Table 4)
Distribution: Southern Orange and San Bernardino counties, south to the cape of Baja California, Mexico.
Habitat(s): Coastal sage scrub, chaparral, edges of riparian woodlands and washes. Also found in weedy, disturbed areas adjacent to these habitats. Important habitat requirements include open, sunny areas; shaded areas; and abundant invertebrate prey base, particularly termites (*Reticulitermes* sp.).
Presence on site: Observed or detected during previous site surveys in 2015/2016.

California horned lark (*Eremophila alpestris actia*)
Sensitivity: State Watch List (see footnote 1 in Table 4)
Distribution: Sonoma County, California to northern Baja California, Mexico.
Habitat(s): Sandy beaches, agricultural fields, grasslands and open areas on coastal slopes and in lowlands.
Presence on site: Observed or detected during previous site surveys in 2015/2016.

Cooper's hawk (*Accipiter cooperii*)
Sensitivity: State Watch List; MSCP Covered (see footnote 1 in Table 4)
Distribution: Throughout the continental U.S. (excluding Alaska) and parts of both Montana and the Dakotas. Winters south to Mexico and Honduras
Habitat(s): In San Diego County, tends to inhabit lowland riparian areas and oak woodlands in proximity to suitable foraging areas such as scrubland or fields.
Presence on site: Observed or detected during previous site surveys in 2015/2016.

Sharp-shinned Hawk (*Accipiter striatus*)
Sensitivity: State Watch List (see footnote 1 in Table 4)
Distribution: In San Diego County, this species is widespread but occurs only as an uncommon winter visitor (Unitt 2004).
Habitat(s): Variety of habitats, though more frequently in areas with trees or tall shrubs than in those without them (Unitt 2004).
Presence on site: Observed flying overhead in 2018.

Northern harrier (*Circus cyaneus*)
Sensitivity: State Species of Special Concern; MSCP Covered (see footnote 1 in Table 4)
Distribution: Widespread throughout the temperate regions of North America and Eurasia. Winters and migrates throughout California from below sea level in Death Valley to an elevation of 9,800 feet above mean sea level.
Habitat(s): Coastal, salt, and freshwater marshlands; grasslands; and prairies. Breeds and forages in treeless habitats; nests on the ground.
Presence on site: Observed during previous site surveys in 2015/2016 and in 2018 (Figure 4a).

Coastal California gnatcatcher (*Polioptila californica californica*)
Sensitivity: Federal Listed Threatened; State Species of Special Concern; MSCP Covered (see footnote 1 in Table 4)
Distribution: Southern Los Angeles, Orange, western Riverside, and San Diego counties south into Baja California, Mexico.
Habitat(s): Prefers open sage scrub.
Presence on site: The CAGN was observed in the MHPA on site. All Diegan coastal sage scrub and Diegan coastal sage scrub-disturbed in the MHPA on site is considered occupied by the CAGN.

Sensitive animal species that were not observed but may have potential to occur on site (based on, for example, habitat types) are listed in Table 4.

Table 4 SENSITIVE ANIMAL SPECIES NOT OBSERVED OR DETECTED AND THEIR POTENTIAL TO OCCUR		
SPECIES	**SENSITIVITY***	**POTENTIAL TO OCCUR**
INVERTEBRATES		
Quino checkerspot butterfly (*Euphydryas editha quino*)	FE	Low. Was not observed during USFWS protocol-level surveys on site in 2015, 2016, and 2018 (Appendix C). The USFWS database includes a 2014 record of the Quino checkerspot butterfly within one mile of the site at the "Area 6 Dennery Canyon Vernal Pool Preserve." That location is approximately 3,000 feet northwest of the site. Other nearby reports of the species are from the San Diego Natural History Museum in the 1970s that were recorded within a 4-kilometer diameter from "Brown Field."
VERTEBRATES		
Reptiles		
Coast horned lizard (*Phrynosoma blainvillii*)	SSC Covered	Moderate within succulent scrub and sage scrub on site.
Red-diamond rattlesnake (*Crotalus ruber*)	SSC	Moderate within succulent scrub and sage scrub on site.
Birds		
Coastal cactus wren **(***Campylorhynchus brunneicapillus sandiegensis***)**	BCC SSC MSCP Covered	Low within maritime succulent scrub-disturbed. Likely would have been detected during site surveys in 2014, 2015, and 2016.

Table 4 (cont.) **SENSITIVE ANIMAL SPECIES NOT OBSERVED OR DETECTED AND THEIR POTENTIAL TO OCCUR**		
SPECIES	**SENSITIVITY***	**POTENTIAL TO OCCUR**
VERTEBRATES (CONT.)		
Burrowing owl (*Athene cunicularia*)	BCC SSC MSCP Covered	Considered absent. BUOW surveys were conducted on site in 2014, 2015, 2016, and 2018 (Appendix D), and neither the BUOW, burrows, nor its sign was found. According to the Staff Report on Burrowing Owl Mitigation (California Department of Fish and Game 2012), occupancy of burrowing owl habitat is confirmed at a site when at least one burrowing owl, or its sign at or near a burrow entrance, is observed within the last three years. While a survey was not conducted in 2017, surveys were conducted for three consecutive years immediately prior to 2017, and a fourth survey was conducted in 2018 during which sign from 2017 would likely have been visible if present. Therefore, the burrowing owl is considered absent from the site. According to the California Natural Diversity Database, the only burrowing owl sighting reported within one mile of the site is from 2005. The location is 0.1 mile southeast of the intersection of Otay Mesa Road and Cactus Road, which is approximately 2,000 feet northeast of the site.
Grasshopper sparrow (*Ammodramus savannarum*)	SSC	Low due to limited acreage of its grassland habitat.
Loggerhead shrike (*Lanius ludovicianus*)	BCC SSC	Moderate in succulent scrub, sage scrub and grassland habitats on site.
Southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*)	WL MSCP Covered	Moderate in succulent scrub, sage scrub on site.

Table 4 (cont.) **SENSITIVE ANIMAL SPECIES NOT OBSERVED OR DETECTED AND THEIR POTENTIAL TO OCCUR**		
SPECIES	**SENSITIVITY***	**POTENTIAL TO OCCUR**
VERTEBRATES (CONT.)		
Mammals		
Northwestern San Diego pocket mouse (*Chaetodipus fallax fallax*)	SSC	Low in open areas of scrub and disturbed habitat. It often is found where sandy substrates are present, which are not on site.
San Diego black-tailed jackrabbit (*Lepus californicus bennettii*)	SSC	High in grassland and open scrub on site.
San Diego desert woodrat (*Neotoma lepida intermedia*)	SSC	Low in scrub on site. Nests or indirect signs would likely have been observed if present.

[1]**Federal**
FE – Federal listed endangered
FT – Federal listed threatened
BCC – Bird of Conservation Concern

State
SSC – State Species of Special Concern
WL – State Watch List

City
MSCP Covered – Species for which the City has take authorization under its MSCP Subarea Plan (City 1997).

5.5.4 Waters of the U.S., Waters of the State, and City Wetlands

Waters of the U.S. and Waters of the State encompass wetlands but also may include ephemeral and intermittent streams that may or may not be vegetated. Generally, wetlands are lands where saturation with water is the dominant factor determining the nature of soil development and the types of plant and animal communities living in the soil and on its surface. Wetlands vary widely because of regional and local differences in soils, topography, climate, hydrology, water chemistry, vegetation, and other factors (Environmental Protection Agency 2013). Waters of the U.S., Waters of the State, and City Wetlands are sensitive as they are regulated by the Corps, CDFW, and City, respectively. See Section 2.2.2, *Mapping Potential Waters of the U.S.*, *Waters of the State, and City Wetlands*, for more detail.

Waters of the U.S.

Waters of the U.S. on site consist of three, non-wetland, ephemeral streambeds associated with the northwestern canyon in the MHPA on site and the southwestern canyons on site (Appendix E). These ephemeral streams cover a total of approximately 0.152 acre (1,999 linear feet). There are no wetland Waters of the U.S. on site as none of the streambeds meet the hydrophytic vegetation criterion described in the Wetlands Delineation Manual (Environmental Laboratory 1987) and the Arid West Supplement (Corps 2008). There are no wetland or non-wetland Waters of the U.S. in the off-site impact areas.

Waters of the State

Waters of the State on site include the same three ephemeral streams that are non-wetland Waters of the U.S. (Appendix E). Therefore, Waters of the State on site also total of approximately 0.152 acre (1,999 linear feet). There are no wetland Waters of the State on site as no wetland/riparian vegetation is present, and there are no Waters of the State in the off-site impact areas.

City Wetlands

The non-wetland Waters of the U.S./Waters of the State discussed above do not meet the City's Wetland definition. According to the City's Land Development Code Biology Guidelines (City 2012), seasonal drainage patterns (i.e., ephemeral/intermittent drainages and streambeds), would not satisfy City's Wetland definition unless wetland dependent vegetation is either present in the drainage or lacking due to past human activities. The non-wetland waters on site lack wetland vegetation, as follows, and therefore, are not City Wetlands. Plant species present in the streambeds include those that are Upland (always found in uplands), Facultative Upland (usually found in uplands, and Facultative (found in wetlands as often as found in uplands). Examples of Upland species found in the streambeds on site include California sagebrush and red brome. Examples of Facultative Upland species found in the streambeds on site include horehound (*Marrubium vulgare*), black mustard (*Brassica nigra*), and fennel (*Foeniculum vulgare*). Examples of Facultative species found in the streambeds on site include Australian saltbush (*Atriplex semibaccata*) and cocklebur (*Xanthium strumarium*).

5.5.5 Wildlife Corridors

One of the objectives of the MHPA is to delineate core corridors targeted for conservation while acknowledging that limited development may occur (City 1997). As disclosed in the biological resources report (RECON Environmental, Inc. 2013) appended to the Otay Mesa Community Plan Update FEIR (City 2014), Dennery and Spring canyons, connected by the Otay Mesa Road culvert and State Route 905 wildlife crossing, function as the primary north-south wildlife movement corridor in western Otay Mesa. Spring Canyon, which is in the MHPA, occurs to the north and west of the CVSP Area and within the CVSP Area along its northern border, which is on the project site (Figure 3). Consistent with the conclusion reached by the FEIR, construction of Airway Road is the only feature of the CVSP that would unavoidably impact the MHPA, consisting of a portion of the upper slopes of Spring Canyon; the remainder of the canyon would not be impacted. Airway Road is "considered conditionally compatible with the biological objectives of the MSCP" (City 1997).

6.0 MSCP COMPLIANCE

6.1 LAND USE ADJACENCY GUIDELINES

Indirect effects listed in the City's Subarea Plan include those from drainage, toxics, lighting, noise, barriers, invasives, brush management, and grading/land development as addressed by the Land Use Adjacency Guidelines specifically for indirect impacts to the MHPA. The following addresses the guidelines and how the project complies with them. All project compliance measures shall be included in the Site Development Permit as conditions of approval.

6.1.1 Drainage

All new and proposed parking lots and developed areas in and adjacent to the preserve must not drain directly into the MHPA. All developed and paved areas must prevent the release of toxins, chemicals, petroleum products, exotic plant materials and other elements that might degrade or harm the natural environment or ecosystem processes within the MHPA. This can be accomplished using a variety of methods including natural detention basins, grass swales or mechanical trapping devices. These systems should be maintained approximately once a year, or as often as needed, to ensure proper functioning. Maintenance should include dredging out sediments if needed, removing exotic plant materials, and adding chemical-neutralizing compounds (e.g., clay compounds) when necessary and appropriate.

During construction, the project will employ the use, as applicable, of structural and non-structural Best Management Practices, Best Available Technology, and sediment catchment devices downstream of paving activities to reduce potential drainage impacts associated with construction. Additionally, the project design complies with the Standard Urban Stormwater Management Plan and Municipal Stormwater Permit criteria of the State Water Resources Control Board and City.

Hardscape and landscape irrigation associated with the built project would result in runoff, which can significantly impact water quality in the MHPA. These potential drainage impacts will be minimized through the construction of two biofiltration basins on site that will collect and treat all water from the site before it is discharged through outfalls with rip-rap energy dissipators (Figure 3).

The outfall from the northern-most biofiltration basin must occur within the MHPA because there is no other place to outlet the water based on site position, topography, and the need to maintain existing runoff routes. As stated previously, the stormwater discharged from this basin directly into the MHPA would not result in significant impacts to the MHPA because the discharge would first be treated via biofiltration, and the outfall location includes a rip-rap energy dissipator that would prevent erosion impacts at the site of outfall.

6.1.2 Toxics

Land uses, such as recreation and agriculture, that use chemicals or generate by-products such as manure, that are potentially toxic or impactive to wildlife, sensitive species, habitat, or water quality need to incorporate measures to reduce impacts caused by the application and/or drainage of such materials into the MHPA. Such measures should include drainage/detention basins, swales, or holding areas with non-invasive grasses or wetland-type native vegetation to filter out the toxic materials. Regular maintenance should be provided. Where applicable, this requirement should be incorporated into leases on publicly owned property as leases come up for renewal.

No trash, oil, parking, or other construction/development related material/activities will be located outside approved construction limits. No staging/storage areas for equipment and materials will be located within or adjacent to the MHPA. All construction related debris will be removed off site to an approved disposal facility. A note will be provided in/on the construction documents that states: *"All construction related activity that may have potential for leakage or*

intrusion shall be monitored by the Qualified Biologist/Owners Representative or Resident Engineer to ensure there is no impact to the MHPA."

6.1.3 Lighting

Lighting of all developed areas adjacent to the MHPA should be directed away from the MHPA. Where necessary, development should provide adequate shielding with non-invasive plant materials (preferably native), berming, and/or other methods to protect the MHPA and sensitive species from night lighting.

Lighting adjacent to the MHPA will be directed away/shielded and will be consistent with City Outdoor Lighting Regulations per LDC Section 142.0740.

6.1.4 Noise

Uses in or adjacent to the MHPA should be designed to minimize noise impacts. Berms or walls should be constructed adjacent to commercial areas, recreational areas, and any other use that may introduce noises that could impact or interfere with wildlife utilization of the MHPA. Excessively noisy uses or activities adjacent to breeding areas must incorporate noise reduction measures and be curtailed during the breeding season of sensitive species. Adequate noise reduction measures should also be incorporated for the remainder of the year.

Construction related noise from such sources as clearing, grading, and construction vehicular traffic could result in significant, temporary noise related impacts to the CAGN that was observed in the MHPA on site. The project will comply with this Land Use Adjacency Guideline for construction related noise as explained below.

> Construction noise that exceeds the maximum levels allowed will be avoided during the breeding season for the CAGN (March 1 through August 15). If construction is proposed during the breeding season for the species, a USFWS protocol survey will be conducted in order to determine species presence/absence. If a protocol survey is not conducted, presence will be assumed with implementation of noise attenuation and biological monitoring. When applicable (i.e., habitat is occupied or if presence of the CAGN is assumed), adequate noise reduction measures will be incorporated as follows:
>
> Prior to the issuance of any grading permit the City Manager (or appointed designee) will verify that the MHPA boundaries and the following project requirements regarding the CAGN are shown on the construction plans:
>
> No clearing, grubbing, grading, or other construction activities will occur within 500 feet of the MHPA between March 1 and August 15 (gnatcatcher breeding season) until the following requirements have been met to the satisfaction of the City Manager:

A. A qualified biologist (possessing a valid FESA Section 10(a)(1)(A) Recovery Permit) shall survey appropriate habitat (coastal sage scrub) areas within the MHPA that lie within 500 feet of the project footprint and would be subject to construction noise levels exceeding 60 dB hourly average for the presence of the gnatcatcher. If no appropriate habitat is present then the surveys will not be required. If appropriate habitat is present, gnatcatcher surveys shall be conducted pursuant to USFWS protocol survey guidelines within the breeding season prior to commencement of any construction. If gnatcatchers are present within the MHPA, the following conditions must be met:

I. Between March 1 and August 15, no clearing, grubbing, or grading of occupied CAGN habitat will be permitted within the MHPA. Areas restricted from such activities shall be staked or fenced under the supervision of a qualified biologist; and

II. Between March 1 and August 15, no construction activities will occur within any portion of the site where construction activities would result in noise levels exceeding 60 dB hourly average at the edge of occupied CAGN habitat within the MHPA. An analysis showing that noise generated by construction activities would not exceed 60 dB hourly average at the edge of occupied habitat must be completed by a qualified acoustician (possessing current noise engineer license or registration with monitoring noise level experience with listed animal species) and approved by the City Manager at least two weeks prior to the commencement of construction activities. Prior to commencement of construction activities during the breeding season, areas restricted from such activities will be staked or fenced under supervision of a qualified biologist; or

III. At least two weeks prior to commencement of construction activities and under direction of a qualified acoustician, noise attenuation measures (e.g., berms, walls) will be implemented to ensure that noise levels resulting from construction activities do not exceed 60 dB hourly average at the edge of habitat (within the MHPA) occupied by the CAGN. Concurrent with commencement of construction activities and construction of necessary noise attenuation facilities, noise monitoring* will be conducted at the edge of occupied habitat area within the MHPA to ensure that noise levels do not exceed 60 dB hourly average. If the noise attenuation techniques implemented are determined to be inadequate by the qualified acoustician or biologist, then the associated construction activities will cease until such time that adequate noise attenuation is achieved or until the end of the breeding season (August 16).

* Construction noise will continue to be monitored at least twice weekly on varying days, or more frequently depending on the construction activity to verify that noise levels at the edge of occupied habitat within the MHPA are maintained below 60 dB hourly average or to the ambient noise level if it already exceeds 60 dB hourly average. If not, other measures will be implemented in consultation with the biologist and the City Manager, as necessary, to reduce noise levels within occupied MHPA habitat to below 60 dB hourly average or to the ambient noise level if it already exceeds 60 dB hourly average. Such measures may include but are not limited to limitations on the placement of construction equipment and the simultaneous use of equipment.

B. If CAGNs are not detected within the MHPA during the protocol survey, the qualified biologist will submit substantial evidence to the City Manager and applicable wildlife agencies which demonstrates whether or not mitigation measures such as noise walls are necessary between March 1 and August 15 as follows:

I. If evidence indicates high potential for CAGN presence based on historical records or site conditions, Condition A.III shall be adhered to as specified above.

II. If evidence concludes that no impacts to this species are anticipated, no mitigation measures would be necessary.

Noise associated with the built project is not expected to be of sufficient volume or duration to interfere with wildlife utilization of the MHPA, and Airway Road is "considered conditionally compatible with the biological objectives of the MSCP…" (City 1997).

6.1.5 Barriers

New development adjacent to the MHPA may be required to provide barriers (e.g., non-invasive vegetation, rocks/boulders, fences, walls, and/or signage) along the MHPA boundaries to direct public access to appropriate locations and reduce domestic animal predation.

The project will install heavy gauge chain link fencing along the MHPA boundary to protect the MHPA (Figure 3). Signage will also be installed to note that the area is City preserve and entry is prohibited.

6.1.6 Invasives

No invasive non-native plant species shall be introduced into areas adjacent to the MHPA.

Per the currently proposed CVSP, the project would comply with the following policies and design standard consistent with the Land Use Adjacency Guidelines for invasives:

> Policy 2.5-156: "Landscaping plantings for external slopes shall include a combination of hydro-seeding and container planting of native plant species…."
>
> Policy 2.5-158: "Erosion control methods shall comply with the City's Landscape Standards (Municipal Code §142.0401 et seq.)."
>
> Design Standard 2.5-2: "Prohibited and invasive plant species shall not be knowingly used within Central Village. Prohibited plants are those which do not satisfy the minimum performance standards for the site area per the City's Municipal Code §142.0403."

Specifically, the built project will follow SDMC Landscape Standards (Section 1.3) and not use invasive species in landscaping, which will prevent their introduction to areas adjacent to the MHPA. The landscape plans for the project were reviewed by a qualified biologist to confirm that they do not include any invasive species, including in the detention basins on site. This will prevent the spread of invasive species to the MHPA.

Furthermore, the Airway Road slope in the MHPA will be revegetated with native Diegan coastal sage scrub species, and the landscaping will be subject to the SDMC Landscape Standards and Regulations. The Landscape Standards and/or Regulations require, for example, mulching that would control erosion and minimize the establishment of invasive, non-native plant species, as well as revegetation completion within 90 days of the completion of grading. Per Section 4.5 of the Landscape Standards, all revegetated areas shall be maintained until final approval by the City Manager but for no less than 25 months for non-irrigated areas. Maintenance includes the prompt removal of invasive plants that sprout in the revegetated areas. Short-term maintenance of the landscaping will be the responsibility of the project. Long-term maintenance of the slope area will be the responsibility of the City since it is proposed that the slope area be dedicated in fee title to the City (see Section 8.2.1, *Mitigation for Direct Impacts to Upland Vegetation Communities).*

During construction, however, invasive, non-native plants could be transported to the site on construction equipment or vehicles (e.g., seeds on undercarriages) and could colonize areas disturbed by construction activities, and those species could potentially spread into the MHPA. Additionally, invasive plant species already present on site spread into the MHPA during grubbing and grading activities.

To avoid/minimize the transport of invasive plant species, vehicles and equipment brought to the site will be washed at an appropriate off-site location/facility prior to entering the site, and no construction activities will be located outside approved construction limits. Furthermore, all construction related debris will be removed off site to an approved disposal facility.

6.1.7 Brush Management

New residential development located adjacent to and topographically above the MHPA (e.g., along canyon edges) must be set back from slope edges to incorporate Zone 1 brush management areas on the development pad and outside of the MHPA. Zones 2 and 3 will be combined into one zone (Zone 2) and may be located in the MHPA upon granting of an easement to the City (or other acceptable agency) except where narrow wildlife corridors require it to be located outside of the MHPA. Zone 2 will be increased by 30 feet, except in areas with a low fire hazard severity rating where no Zone 2 would be required. Brush management zones will not be greater in size than is currently required by the City's regulations. The amount of woody vegetation clearing shall not exceed 50 percent of the vegetation existing when the initial clearing is done. Vegetation clearing shall be done consistent with City standards and shall avoid/minimize impacts to covered species to the maximum extent possible. For all new development, regardless of the ownership, the brush management in the Zone 2 area will be the responsibility of a homeowners association or other private party.

All required Zone 1 and Zone 2 brush management for the project will occur entirely within the project impact footprint (Figure 3), so there will be no native or naturalized habitats subject to brush management because they will have been removed during project grading and developed. Brush management is required for structures; therefore, no brush management is required for Airway Road. All brush management will be the responsibility of an HOA.

6.1.8 Grading/Land Development

Manufactured slopes associated with site development shall be included within the development footprint for projects within or adjacent to the MHPA.

The project includes all slopes within the development footprint.

6.2 GENERAL PLANNING POLICIES AND DESIGN GUIDELINES

Section 1.4.2 of the City's Subarea Plan includes General Planning Policies and Design Guidelines that have been applied in the review and approval of development projects within or adjacent to the MHPA.

Roads and Utilities – Construction and Maintenance Policies

This section of the Subarea Plan includes eight guidelines/policies. Each is summarized below along with an explanation describing how the future extension of Airway Road complies (or will comply through mitigation) with the guidelines/policies where it occurs adjacent to the MHPA.

The alignment and classification of Airway Road as a Six Lane Primary Arterial was established pursuant to the Otay Mesa Community Plan Update and CVSP. A traffic analysis performed for the Otay Mesa Community Plan determined the minimum intersection spacing between Cactus Road and Village Way. The intersection location and storm drain facilities included with the project are considered supporting features for the ultimate buildout of the Community Plan Circulation Element pursuant to the approved Otay Mesa Community Plan Update (City 2015) and CVSP.

Access to Planning Area 9 from Airway Road is required to be from the signalized intersection with Village Way, which results in the private drive on site passing through the MHPA. The private drive access to Planning Area 9 crossing the MHPA is, therefore, the result of the Community Plan Circulation Element and not the result of Lumina Tentative Map Project design.

1. *All proposed utility lines should be designed to avoid or minimize intrusion into the MHPA.*

   Airway Road and, therefore, associated utility lines would intrude into the MHPA. However, Airway Road has been identified as a major east-west corridor on Otay Mesa and serves as the principal community transportation and activity corridor (City 2015) and is, therefore, "considered conditionally compatible with the biological objectives of the MSCP and allowed within the City's MHPA" (City 1997).

2. *All new development for utilities and facilities within or crossing the MHPA shall be planned, designed, located, and constructed to minimize environmental impacts. If avoidance is infeasible, mitigation would be required.*

   Airway Road has been identified as a major east-west corridor on Otay Mesa and serves as the principal community transportation and activity corridor (City 2015). Therefore, avoidance of the MHPA is infeasible, and mitigation is proposed per the City's MSCP

Subarea Plan, Biology Guidelines, and ESL Regulations (see Section 8.2.1, *Mitigation for Direct Impacts to Upland Vegetation Communities*).

3. *Temporary construction areas and roads, staging areas, or permanent access roads must not disturb existing habitat unless determined to be unavoidable.*

   Airway Road has been identified as a major east-west corridor on Otay Mesa and serves as the principal community transportation and activity corridor (City 2015). Therefore, avoidance of the MHPA is infeasible, and mitigation is proposed per the City's MSCP Subarea Plan, Biology Guidelines, and ESL Regulations (see Section 8.2.1, *Mitigation for Direct Impacts to Upland Vegetation Communities*)

4. *Construction and maintenance activities in wildlife corridors must avoid significant disruption of corridor usage.*

   The roadway will not significantly impact wildlife usage of the MHPA. See Section 7.1.6, *Direct Impacts to Wildlife Corridors*.

5. *Roads in the MHPA will be limited to those identified in Community Plan Circulation Elements, essential collector streets, and necessary maintenance/emergency access roads.*

   Airway Road is identified in the Otay Mesa Community Plan Update (City 2015) as a major east-west corridor that serves as the principal community transportation and activity corridor on Otay Mesa.

6. *Development of roads in canyon bottoms should be avoided whenever feasible. If an alternative location outside the MHPA is not feasible, then the road must be designed to cross the shortest length possible, and if a road crosses the MHPA, it should provide for fully-functional wildlife movement capability.*

   Airway Road does not occur in a canyon bottom on site.

7. *Where possible, roads within the MHPA should be narrowed from existing design standards to minimize habitat fragmentation and disruption of wildlife movement and breeding areas. Roads must be located in lower quality habitat or disturbed areas to the extent possible.*

   Airway Road is "considered conditionally compatible with the biological objectives of the MSCP and allowed within the City's MHPA" (City 1997). Airway Road has been designed to accommodate traffic needs anticipated in the Otay Mesa Community Plan Update FEIR, and its location on site has already been determined (City 2014). Additionally, the location of the private drive off of Airway Road in the MHPA is the result of the Otay Mesa Community Plan Circulation Element and not the result of Lumina Tentative Map Project design.

8. *Existing roads and utility lines are usually considered a compatible use in the MHPA.*

   Airway Road on site has not been constructed yet.

Fencing, Lighting, and Signage

This section of the Subarea Plan includes three guidelines/policies. Each is summarized below along with an explanation as to how the project complies where it occurs adjacent to the MHPA.

1. Fencing or other barriers will be used where it is determined to be the best method to achieve conservation goals and adjacent to land uses incompatible with the MHPA.

   There are no incompatible land uses adjacent to the MHPA associated with the project. However, the project will install heavy gauge chain link fencing along the MHPA boundary (Figure 3).

2. Lighting shall be designed to avoid intrusion in the MHPA.

   Lighting adjacent to the MHPA will be directed away/shielded and will be consistent with City Outdoor Lighting Regulations per LDC Section 142.0740.

3. Signage will be limited to access, litter control, and educational purposes.

   Signage will be installed along the MHPA boundary to note that the area is City preserve and entry is prohibited.

Materials Storage

Storage of materials (e.g., hazardous or toxic chemicals, equipment, etc.) shall not be located within the MHPA, and proper storage of such materials is required per applicable regulations in any areas that may impact the MHPA, especially due to potential leakage.

No trash, oil, parking, or other construction/development related material/activities will be located outside approved construction limits. No staging/storage areas for equipment and materials will be located within or adjacent to the MHPA. All construction related debris will be removed off site to an approved disposal facility.

6.3 GENERAL MANAGEMENT DIRECTIVES

The following summarized, General Management Directives for all areas of the City's MSCP Subarea Plan are applicable to the project. Those directives not applicable include Adjacency Management Issues (except public access; see Section 6.1.5, *Barriers*), Invasives Exotics Control and Removal (except Invasives; see Section 6.1.6, *Invasives*), and Flood Control (since there are no flood control channels on site).

1. Mitigation shall be performed in accordance with ESL Regulations and the City's Biology Guidelines.

   The mitigation measures in Section 8.0, *Mitigation Measures*, of this report have been formulated to satisfy the requirements of the City's MSCP Subarea Plan, Biology Guidelines, and ESL Regulations.

2. Restoration or revegetation undertaken in the MHPA shall be performed in a manner acceptable to the City.

   No restoration or revegetation in the MHPA is currently proposed for the project.

3. Public Access, Trails, and Recreation. This directive includes requirements for trail signage, type, location, design, and use.

   There are no trails associated with the project.

4. Litter/Trash and Materials Storage. This directive includes requirements for trash removal and permanent materials storage in the MHPA.

   Trash and other construction related materials will be kept within approved construction limits, and no storage areas will be located within or adjacent to the MHPA. All construction related debris will be removed off site to an approved disposal facility. There would be no permanent storage of any kind in the MHPA associated with the project.

6.4 CONDITIONS AND ASMDs FOR MSCP COVERED SPECIES

This section lists the Conditions and Area Specific Management Directives for MSCP Covered Species observed or with moderate potential to occur on site (none has high potential). Explanations as to how the project complies (or will comply through mitigation) with these Conditions and Directives is also provided.

San Diego Barrel Cactus

MSCP Area Specific Management Directives must include measures to protect this species from edge effects, unauthorized collection, and include appropriate fire management/control practices to protect against a too frequent fire cycle. Edge effects, unauthorized collection, and fire management will be addressed through compliance with the MHPA Land Use Adjacency Guidelines.

Orange-throated Whiptail

MSCP Area Specific Management Directives must address edge effects for the orange-throated whiptail. Edge effects would be addressed through compliance with the MHPA Land Use Adjacency Guidelines.

Coast Horned Lizard

MSCP Area Specific Management Directives for the coast horned lizard require that specific measures be implemented to maintain native ant species, discourage the Argentine ant, and protect against the species from detrimental edge effects. If any container stock is used for on-site habitat restoration that stock shall be inspected for the presence of Argentine ants prior to its delivery (see Section 8.3.2). Edge effects would be addressed through compliance with the MHPA Land Use Adjacency Guidelines.

Coastal California Gnatcatcher

MSCP Area Specific Management Directives for the CAGN must include measures to reduce edge effects and minimize disturbance during the nesting period, fire protection measures to reduce the potential for habitat degradation due to unplanned fire, and management measures to maintain or improve habitat quality including vegetation structure. No clearing of occupied habitat within the MHPA may occur between March 1 and August 15.
Area Specific Management Directives for the CAGN would be addressed by the project through compliance with the MHPA Land Use Adjacency Guidelines (specifically through compliance with the lighting, noise, and barrier guidelines). Additionally, mitigation that would be required for impacts to this species' habitats (Diegan coastal sage scrub and Diegan coastal sage scrub-disturbed) would be part of the City's preserve and, therefore, managed by the City per this directive.

Southern California Rufous-crowned Sparrow

MSCP Area Specific Management Directives for the southern California rufous-crowned sparrow must include maintenance of dynamic processes, such as fire, to perpetuate some open phases of coastal sage scrub with herbaceous components. The mitigation that would be required for impacts to this species' habitats (Diegan coastal sage scrub, Diegan coastal sage scrub-disturbed, and maritime succulent scrub) would be part of the City's preserve and, therefore, managed by the City per this directive.

Burrowing Owl

Conditions for Coverage under the MSCP for the BUOW require that during the environmental analysis of proposed projects, BUOW surveys (using appropriate protocols) be conducted in suitable habitat to determine if this species is present and the location of active burrows. As explained in Section 2.2.3, *Sensitive Species*, BUOW surveys were conducted on site in 2014, 2015, 2016, and 2018, and neither the BUOW, burrows, nor its sign was found. According to the Staff Report on Burrowing Owl Mitigation (California Department of Fish and Game 2012), occupancy of burrowing owl habitat is confirmed at a site when at least one burrowing owl, or its sign at or near a burrow entrance, is observed within the last three years.

While a survey was not conducted in 2017, surveys were conducted for three consecutive years immediately prior to 2017, and a fourth survey was conducted in 2018 during which sign from 2017 would likely have been visible if present. Therefore, the burrowing owl is considered absent from the site. The City, however, still requires a pre-construction survey and impact avoidance should the BUOW be found in accordance with the Conditions for Coverage for the species.

The Conditions for Coverage for the BUOW also require mitigation for loss of BUOW-occupied habitat through the conservation of BUOW-occupied habitat, or conservation of lands appropriate for restoration, management, and enhancement of BUOW nesting and foraging requirements. Since the BUOW is considered absent from the site, this report includes mitigation for the loss of non-native grassland habitat that is not occupied by the BUOW.

Northern Harrier

Area Specific Management Directives for the northern harrier must manage agricultural and disturbed lands (which become part of the MHPA) within four miles of nesting habitat to provide foraging habitat; include an impact avoidance area (900 foot or maximum possible within the MHPA) around active nests; and include measures of maintaining winter foraging habitat in preserve areas in Proctor Valley, around Sweetwater Reservoir, San Miguel Ranch, Otay Ranch east of Wueste Road, Lake Hodges, and San Pasqual Valley. The City is responsible for managing the preserve (i.e., the MHPA) on site. Mitigation would be required, however, to provide a 900-foot (or maximum possible) impact avoidance area around active northern harrier nests in the MHPA, should they occur during construction, to avoid a potentially significant impact to northern harrier nesting. See Section 8.3, *Mitigation for Indirect Impacts to Raptor Nesting*.

Cooper's Hawk

MSCP Area Specific Management Directives for the Cooper's hawk must include 300-foot impact avoidance areas around active nests, and minimization of disturbance in oak woodlands and oak riparian forests. Since Cooper's hawks typically nest in woodlands that are not present on or adjacent to the project site or off-site impact areas, and these areas also do not support riparian forests, Cooper's hawk nesting within 300 feet of project impacts is not anticipated, and impacts to woodlands or forests would not occur.

6.5 MHPA BOUNDARY LINE ADJUSTMENT

If a project would encroach into the MHPA beyond the allowable development area pursuant to Sections 143.0142 and 131.0250(b) of the Land Development Code and pages 13-15 of the City's Biology Guidelines, an MHPA boundary line adjustment is required. Under the City's MSCP Subarea Plan, an adjustment to the City's MHPA boundary is allowed only if the new MHPA boundary results in an exchange of lands that are functionally equivalent or higher in biological value. A determination of functionally equivalent or higher biological value is based on site-specific information (both quantitative and qualitative) that addresses six boundary adjustment criteria outlined in Section 5.4.3 of the Final MSCP Plan (August 1998).

As noted previously in this report, the extension of Airway Road on site would occur within the MHPA as planned by the Otay Mesa Community Plan Update and evaluated in the FEIR (City 2014). Airway Road is an essential public facility and is, therefore, "considered conditionally compatible with the biological objectives of the MSCP and allowed within the City's MHPA" (City 1997). Therefore, no MHPA boundary line adjustment is required. Furthermore, the location of the private drive off of Airway Road in the MHPA is the result of the Otay Mesa Community Plan Circulation Element and not the result of Lumina Tentative Map Project design. The project does, however, propose to remove 0.8 acre from the MHPA as part of development of Lot 1, which includes the private drive. The project also proposes to add 3.1 acres to the MHPA, which would result in a net gain to the MHPA of 2.3 acres and would reduce the mitigation ratios for project impacts. An equivalency analysis for the proposed MHPA removal and the addition of lands contiguous to the MHPA is provided in this report in Section 8.2.1, *Mitigation for Direct Impacts to Upland Vegetation Communities*.

7.0 PROJECT IMPACT ANALYSIS

This section analyzes project effects on sensitive biological resources. The City's CEQA Significance Determination Thresholds (City 2012) are used to establish whether or not there is a significant effect. A significant effect is defined as a "substantial or potentially substantial adverse change in the environment." The CEQA Guidelines (i.e., Appendix G of the CEQA Guidelines) further indicate that there may be a significant effect on biological resources if a project will trigger the following criteria:

A. Substantially affect an endangered, rare, or threatened species of animal or plant or the habitat of the species;

B. Interfere substantially with the movement of any resident or migratory fish or wildlife species; or

C. Substantially diminish habitat for fish, wildlife, or plants.

Impacts to biological resources are evaluated by City staff through the CEQA review process, the ESL Regulations and City's Biology Guidelines, and through the review of a project's consistency with the City's MSCP Subarea Plan. The project would be required to obtain all applicable federal and State permits prior to the issuance of any discretionary permit by the City. Prior to the issuance of any construction permit(s), the project applicant must provide a copy of the permit, authorization letter, or other official mode of communication from the federal and State permitting agencies to the City.

For projects within the City or carried out by the City which may affect sensitive biological resources, potential impacts to such sensitive biological resources must be evaluated using the following significance criteria:

1. Would the project result in substantial adverse impacts, either directly or through habitat modifications, to any species identified as a candidate, sensitive or special status species in the MSCP or other local or regional plans, policies or regulations, or by the CDFW or USFWS?
2. Would the project result in a substantial adverse impact on any Tier I, Tier II, Tier IIIA or Tier IIIB habitats as identified in the Biology Guidelines or other sensitive natural community identified in local or regional plans, policies, regulations or by the CDFW or USFWS?
3. Would the project result in a substantial adverse impact on wetlands (including, but not limited to, marsh, vernal pools, riparian areas, etc.) through direct removal, filling, hydrological interruption, or other means?
4. Would the project substantially interfere with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, including linkages identified in the MSCP Plan, or impede the use of native wildlife nursery sites?
5. Would the project conflict with the provisions of an adopted Habitat Conservation Plan, NCCP, or other approved local, regional or state habitat conservation plan, either within the MSCP plan area or in the surrounding region?

6. Would the project introduce a land use within an area adjacent to the MHPA that would result in adverse edge effects?
7. Would the project conflict with any local policies or ordinances protecting biological resources?
8. Would the project introduce invasive species of plants in to natural open space?

7.1 DIRECT IMPACTS

Direct impacts immediately alter the affected biological resources such that those resources are eliminated temporarily or permanently. The removal of vegetation, for example, would be considered a direct impact. All direct impacts associated with the project would be permanent.

7.1.1 Direct Impacts to Vegetation Communities

Approximately 100.6 total acres would be impacted by the project, and all impacts are to upland communities or land cover (Figure 3; Table 5). All Zone 1 and Zone 2 brush management for the project would occur within the development footprint (i.e., the areas graded to build the project). Therefore, no native or naturalized vegetation would be impacted by brush management. Furthermore, no impacts would occur from brush management for Airway Road because brush management is not required for the road. See Section 6.1.7, *Brush Management*, for more information.

The MHPA would be unavoidably impacted by construction of the extension of Airway Road on site. The Airway Road extension on site is the only project component that would impact the MHPA. The segment of Airway Road located in the CVSP area in the MHPA was planned in this location by the Otay Mesa Community Plan Update and evaluated in the FEIR (City 2014). As called for by the FEIR, impacts to the MHPA due to the construction of Airway Road would be mitigated in accordance with the methods and ratios provided in the City's Biology Guidelines (see Section 8.2.1, *Mitigation for Direct Impacts to Upland Vegetation Communities*). Airway Road is an essential public facility and is, therefore, "considered conditionally compatible with the biological objectives of the MSCP and allowed within the City's MHPA" (City 1997). Furthermore, the location of the private drive off of Airway Road in the MHPA is the result of the Otay Mesa Community Plan Circulation Element and not the result of Lumina Tentative Map Project design.

Table 5 DIRECT IMPACTS TO VEGETATION COMMUNITIES/LAND COVER TYPES[1]						
	On Site					Off Site
Vegetation Community/Land Cover Type	**Total Existing Onsite**	**Impacts Inside the MHPA**	**Impacts Outside the MHPA**	**Total Impacts**	**Remaining[2]**	**Total Off-site Impacts[3]**
Upland Vegetation						
Maritime succulent scrub-disturbed (Tier I)	0.5	--	0.5	0.5	--	--
Diegan coastal sage scrub (Tier II)	1.5	0.5	0.2	0.7	0.8	--
Diegan coastal sage scrub-disturbed (Tier II)	2.8	1.0	1.5	2.5	0.3	--
Non-native grassland (Tier IIIB)	3.7	0.5	2.4	2.9	0.8	--
Other Upland Vegetation						
Non-native vegetation (Tier IV)	0.3	--	0.3	0.3	--	--
Agriculture (Tier IV)	61.7	0.2	61.7	61.9	--	--
Disturbed land (Tier IV)	2.3	--	2.3	2.3	--	3.6
Land Cover						
Urban/Developed (NA)	20.6	--	20.6	20.7	--	5.2
TOTAL	**93.4**	**2.3**	**89.5**	**91.8**	**1.9**	**8.8**

[1]All brush management for the project would occur within the impact footprint. Brush management is not required for Airway Road. See Section 6.1.7, *Brush Management*, for more information.
[2]The project will place of a covenant of easement over the remaining habitat on site per ESL Regulations.
[3]All off-site impacts are outside the MHPA.

Impacts to Tier I maritime succulent scrub, Tier II Diegan coastal sage scrub, Diegan coastal sage scrub-disturbed, and Tier IIIB non-native grassland would be significant according to the significance criteria described previously in Section 7.0, *Project Impact Analysis* (see below). Mitigation for these impacts would be required. Impacts to Tier IV non-native vegetation, agriculture, and disturbed land would be less than significant as the impacts would not meet criteria for significance described in Section 7.0, *Project Impact Analysis*. Thus, no mitigation would be required.

Significance Criterion C: A project would substantially diminish habitat for fish, wildlife, or plants. The project would replace 3.5 acres of non-native grassland, which provides habitat for plants and animals, with development. Since the City considers any impact to one acre or more of non-native grassland that is not completely surrounded by existing urban development to be significant, this impact would be substantial. The project would also replace 1.5 acres of Diegan coastal sage scrub and Diegan coastal sage scrub-disturbed in the MHPA that is occupied by the CAGN with urban development, which would also be substantial. Mitigation would be required for these impacts.

Significance Criterion 2: A project would result in a substantial adverse impact on any Tier I, Tier II, Tier IIIA or Tier IIIB habitat as identified in the Biology Guidelines or other sensitive natural community identified in local or regional plans, policies, regulations, or by the CDFW or USFWS. As stated above under Significance Criterion C, impacts would occur to Tier I maritime succulent scrub and Tier IIIB non-native grassland that would be considered substantial and adverse; mitigation would be required. Tier II Diegan coastal sage scrub and Diegan coastal sage scrub-disturbed would also be impacted, which would be considered substantial and adverse; mitigation would be required.

7.1.2 Direct Impacts to Sensitive Plant Species

Direct impacts to sensitive plant species would occur as follows.

San Diego Barrel Cactus

The project would directly impact 84 San Diego barrel cacti. Seventy-nine of these individuals are located in the MHPA. This species is an MSCP Covered Species considered to be adequately protected in the MHPA. Therefore, the impact is considered to be less than significant (with project compliance with the Land Use Adjacency Guidelines and Conditions and Area Specific Management Directives for MSCP Covered Species (Significance Criterion 1; substantial adverse impacts to [sensitive] species), and no mitigation would be required. See Sections 6.1, *Land Use Adjacency Guidelines* and 6.4, *Conditions and Area Specific Management Directives for MSCP Covered Species* for more information. Impacted individuals of this species, however, will be salvaged and transplanted as part of the coastal sage scrub restoration on the Barton parcels (see Appendix F).

San Diego Bursage

Four San Diego bursage plants (CNPS Rare Plant Rank 2B.1) would be impacted outside the MHPA. Impacts to four individuals are considered to be less than significant (Significance Criterion 1; substantial adverse impacts to [sensitive] species), as the impact would not be substantial, and no mitigation would be required.

San Diego County Sunflower

Thirty-nine San Diego sunflower plants would be impacted in the MHPA; 18 would be impacted outside the MHPA. With this species' low CNPS Rare Plant Rank of 4.2, the impacts are considered to be less than significant (Significance Criterion 1; substantial adverse impacts to [sensitive] species). That is, the impact would be less than substantial, and no mitigation would be required.

Seaside Calandrinia

One seaside calandrinia plant would be impacted in the MHPA. With this species' low CNPS Rare Plant Rank of 4.2, the impacts to one individual is considered to be less than significant (Significance Criterion 1; substantial adverse impacts to [sensitive] species), as the impact would not be substantial, and no mitigation would be required.

Small-flowered Morning Glory

Eight small-flowered morning glory plants would be impacted outside the MHPA. With this species' low CNPS Rare Plant Rank of 4.2, the impacts to eight individuals are considered to be less than significant (Significance Criterion 1; substantial adverse impacts to [sensitive] species), as the impact would not be substantial, and no mitigation would be required.

South Coast Saltscale

South coast saltscale occurs outside of the project's on-site and off-site boundaries; therefore, the three individuals found in the mapped area along Airway Road off site would not be impacted.

7.1.3 Direct Impacts to Sensitive Animal Species

Orange-throated Whiptail

The project would impact scrub habitats and disturbed land that provide potential habitat for the orange-throated whiptail, which is an MSCP Covered Species. The loss of habitat for this species along with the potential loss of individuals would be significant according to Significance Criterion 1 (substantial adverse impacts, either directly or through habitat modifications, to [sensitive] species). Mitigation would be required.

Coastal California Gnatcatcher

The project would directly impact 1.5 acres of Diegan coastal sage scrub and Diegan coastal sage scrub-disturbed on site in the MHPA considered occupied by the CAGN. The CAGN is federal listed endangered, a State Species of Special Concern, and is an MSCP Covered Species. The impact to the CAGN would occur from habitat removal in the MHPA, which would be significant according to Significance Criterion A (substantially affect a threatened species) and Significance Criterion 1 (direct impacts to a species identified as special status in the MSCP and by the USFWS and CDFW). Mitigation would be required. Direct impacts to the species and its habitat outside the MHPA are authorized under the City's Subarea Plan and, therefore, are less than significant.

California Horned Lark

The project would impact more than 65 acres of non-native grassland and agriculture that provide potential habitat for the California horned lark, which is on the State Watch List. It is not an MSCP Covered Species. Due to the amount of habitat loss for this species, the impact would be significant according to Significance Criterion 1 (substantial adverse impacts, either directly or through habitat modifications, to [sensitive] species). Mitigation would be required.

Northern Harrier

The northern harrier has potential to nest on site, and it nests on the ground. Therefore, project construction has potential to directly impact northern harrier nesting. As a general/standard condition, however, the project must comply with the MBTA and California Fish and Game Code to avoid this impact (see Section 3.1.1, *Federal*, and Section 3.1.2, *State of California*).

Raptor Foraging

Loss of non-native grassland due to the project would result in a loss of raptor foraging habitat (Tier III B non-native grassland) that could be used by the sensitive northern harrier (State Species of Special Concern and MSCP Covered Species) that was observed during previous surveys in 2015/2016 and in 2018. The loss of other habitats on site that may support the primary avian prey of the sensitive Cooper's hawk (State Watch List and MSCP Covered Species; observed during previous surveys in 2015/2016), such as Diegan coastal sage scrub, would also result in a loss of potential raptor foraging habitat. The loss of raptor foraging habitat would be significant according to Significance Criterion 1 (substantial adverse impacts, either directly or through habitat modifications, to [sensitive] species). Mitigation would be required.

7.1.4 Direct Impacts to Sensitive Plant and Animal Species with Potential to Occur

Table 3 presented a list of the sensitive and MSCP Narrow Endemic plant species and their potential to occur on site. All of these species are either not expected or have very low to low potential to occur based on the location of the site, the habitats present, and/or because they have not been found on site during surveys conducted. Therefore, impacts to these species are not anticipated, and no mitigation would be required.

Table 4 presented a list of sensitive animal species not observed or detected and their potential to occur on site. Four of these species have moderate potential to occur; one species has high potential to occur. For those with low potential to occur, impacts are not expected, and mitigation would not be required.

There is moderate potential for the following four species to occur on site: coast horned lizard, red-diamond rattlesnake, southern California rufous-crowned sparrow, and loggerhead shrike. The first three species would be expected to occur in the MHPA on site and potentially in the southwestern canyon on site where scrub vegetation is present. The loggerhead shrike would be expected to occur in more open areas such as grasslands and agriculture. There is also high potential for the San Diego black-tailed jackrabbit to occur in open scrub and grassland. None of these species is federal or State listed as threatened or endangered; the southern California rufous-crowned sparrow is an MSCP Covered Species.
Direct impacts to individuals or the habitats of coast horned lizard, red-diamond rattlesnake, southern California rufous-crowned sparrow, loggerhead shrike, and San Diego black-tailed jackrabbit, should these species be present, could be significant according to Significance Criterion 1 (substantial adverse impacts to sensitive species). Mitigation would be required.

While the BUOW is considered absent from the site, the site still has BUOW occupation potential. Therefore, a pre-construction take avoidance survey for the BUOW is required as described in Section 8.2.2, *Mitigation for Direct Impacts to Sensitive Animal Species*.

7.1.5 Direct Impacts to Waters of the U.S., Waters of the State, and City Wetlands

Approximately 0.149 acre (1,881 linear feet) of ephemeral streams on site (none occur within off site impact area) that are Waters of the U.S. and Waters of the State would be impacted by the project (Figure 3). There are no federal, State, or City Wetlands present on or off site that would be impacted (Significance Criterion 3). Clean Water Act and California Fish and Game Code permitting would be required (see Section 3.1.1, *Federal* and Section 3.1.2, *State of California*).

7.1.6 Direct Impacts to Wildlife Corridors

Consistent with the conclusion reached by the Otay Mesa Community Plan Update FEIR (City 2014), construction of Airway Road is the only feature of the CVSP that would unavoidably impact the MHPA, consisting of a portion of the upper slopes of Spring Canyon; the remainder of the canyon would not be impacted. Therefore, Airway Road construction (and maintenance) would avoid significant disruption of corridor usage, and the project would not substantially impact the MHPA and would, therefore, not significantly alter wildlife movement (Significance Criterion 4).

7.2 INDIRECT IMPACTS

Indirect impacts consist of secondary effects of a project such as from fugitive dust, in the form of avian nesting disturbance, or potential loss of a primary food source.

7.2.1 Indirect Impacts from Fugitive Dust

Fugitive dust produced by construction could disperse onto adjacent outside and inside the MHPA. A continual cover of dust may reduce the overall vigor of individual plants by reducing their photosynthetic capabilities and increasing their susceptibility to pests or disease. This, in turn, could affect animals dependent on these plants (e.g., seed-eating rodents). Fugitive dust also may make plants unsuitable as habitat for insects and birds.

Construction of the project will adhere to applicable construction dust control measures prescribed by the City. These measures include, for example, reduced driving speeds on unpaved roads and regular watering of dirt surfaces. Potential impacts from fugitive dust would be less than significant and, therefore, would not require mitigation.

7.2.2 Indirect Impacts to Raptor Nesting

Northern harrier. Indirect impacts to nesting northern harriers could occur if any construction occurs in or near the MHPA within the raptor breeding season (generally February 1 to September 15). MSCP Area Specific Management Directives for the northern harrier must include an impact avoidance area (900 foot or maximum possible within the preserve) around active nests. Mitigation would be required to provide a 900-foot (or maximum possible) impact avoidance area around active northern harrier nests in the MHPA during construction, should they occur, to avoid a potentially significant impact to northern harrier nesting under Significance Criterion 1 (substantial adverse impacts, either directly or through habitat modifications, to [sensitive] species).

Cooper's hawk. Indirect impacts to nesting Cooper's hawks could occur if any construction occurs in or near the MHPA within the raptor breeding season (generally February 1 to September 15). MSCP Area Specific Management Directives for the Cooper's hawk must include 300-foot impact avoidance areas around active nests, and minimization of disturbance in oak woodlands and oak riparian forests. Since Cooper's hawks typically nest in woodlands that are not present on or adjacent to the project site or off-site impact areas, and these areas also do not support riparian forests, Cooper's hawk nesting within 300 feet of project impacts is not anticipated, and impacts to woodlands or forests would not occur. No mitigation would be required.

Burrowing Owl. The BUOW is considered absent from the site but non-native grassland still has potential to be occupied by BUOW (hence the requirement for pre-construction surveys outlined in Section 8.2.2, *Mitigation for Direct Impacts to Sensitive Animal Species*.

The Biology Guidelines (City 2012) require an impact avoidance area of 300 feet from any occupied BUOW burrow that occurs in the MHPA (this is the MSCP Area Specific Management Directive for this species). If any construction would occur during the raptor breeding season, there is potential, albeit low, for impacts to the BUOW that would be significant according to Significance Criterion 1 (substantial adverse impacts, either directly or through habitat modifications, to [sensitive] species) and Significance Criterion 7 (conflict with local policies). Mitigation would be required.

7.2.3 Potential Loss of Primary Prey Base for the Coast Horned Lizard

Argentine ants are a threat to the native ant prey base of the coast horned lizard, an MSCP Covered Species. Argentine ant presence is negatively correlated with native ant species diversity, and is one cause of local native ant extinction (Suarez et al. 1998 *in* U.S. Geological Survey and San Diego State University 2001). Should this impact occur, it would be significant according to Significance Criterion 1 (substantial adverse impacts, either directly or through habitat modifications, to [sensitive] species) and Significance Criterion 7 (conflict with local policies). Mitigation would be required.

8.0 MITIGATION MEASURES

The project would impact sensitive vegetation and sensitive plant and animal species. The following measures are proposed to mitigate the direct and indirect impacts to these resources that are significant. Successful implementation of the mitigation measures in this section would reduce each impact to a less-than-significant level. These measures are in accordance with the ESL Ordinance and Biology Guidelines.

8.1 BIOLOGICAL RESOURCE PROTECTION DURING CONSTRUCTION

I. Prior to Construction

A. **Biologist Verification:** The owner/permittee shall provide a letter to the City's MMC Section stating that a Project Biologist (Qualified Biologist), as defined in the City of San Diego's Biological Guidelines (2012), has been retained to implement the project's biological monitoring program. The letter shall include the names and contact information of all persons involved in the biological monitoring of the project.

B. **Pre-construction Meeting:** The Qualified Biologist shall attend a pre-construction meeting, discuss the project's biological monitoring program, and arrange to perform any follow up mitigation measures and reporting including site-specific monitoring, restoration or revegetation, and additional fauna/flora surveys/salvage.

C. **Biological Documents:** The Qualified Biologist shall submit all required documentation to Mitigation Monitoring Coordination verifying that any special mitigation reports including but not limited to, maps, plans, surveys, survey timelines, or buffers are completed or scheduled per City Biology Guidelines, MSCP, ESL Ordinance, project permit conditions; CEQA; endangered species acts; and/or other local, State or federal requirements.

D. **Biological Construction Mitigation/Monitoring Exhibit:** The Qualified Biologist shall present a Biological Construction Mitigation/Monitoring Exhibit which includes the biological documents in C, above. In addition, include: restoration/revegetation plans, plant salvage/relocation requirements, avian or other wildlife surveys/survey schedules (including general avian nesting and USFWS protocol), timing of surveys, wetland buffers, avian construction avoidance areas/noise buffers/ barriers, other impact avoidance areas, and any subsequent requirements determined by the Qualified Biologist and the City Assistant Deputy Director/MMC. The Biological Construction Mitigation/Monitoring Exhibit shall include a site plan, written and graphic depiction of the project's biological mitigation/monitoring program, and a schedule. The Biological Construction Mitigation/Monitoring Exhibit shall be approved by MMC and referenced in the construction documents.

E. **Avian Protection Requirements:** To avoid any direct impacts to raptors and/or any native/migratory birds (specifically including the southern California rufous-crowned sparrow and loggerhead shrike that have moderate potential to occur on site), removal of habitat that supports active nests in the proposed area of disturbance should occur outside of the breeding season for these species (February 1 to September 15). If removal of habitat in the proposed area of disturbance must occur (based on construction timing) during the breeding season, the Qualified Biologist shall conduct a pre-construction survey to determine the presence or absence of nesting birds on the proposed area of disturbance. The pre-construction survey shall be conducted within 10 calendar days prior to the start of construction activities (including removal of vegetation). The applicant shall submit the results of the pre-construction survey to City Development Services Department for review and approval prior to initiating any construction activities. If nesting birds are detected, a letter report or mitigation plan in conformance with the City's Biology Guidelines and applicable State and federal law (i.e., appropriate follow up surveys, monitoring schedules, construction and noise barriers/buffers, etc.) shall be prepared and include proposed measures to be implemented to ensure that take of birds or eggs or disturbance of breeding activities is avoided. The report or mitigation plan shall be submitted to the City Development Services Department for review and approval and implemented to the satisfaction of the City. The City's MMC Section or Resident Engineer, and Qualified Biologist shall verify and approve that all measures identified in the report or mitigation plan are in place prior to and/or during construction. If nesting birds are not detected during the pre-construction survey, no further mitigation is required.

F. **Resource Delineation:** Prior to construction activities, the Qualified Biologist shall supervise the placement of silt and orange construction fencing or equivalent along the limits of disturbance and verify compliance with any other project conditions as shown on the Biological Construction Mitigation/Monitoring Exhibit. This phase shall include, as applicable, flagging plant specimens and delimiting buffers to protect sensitive biological resources (e.g., habitats/flora and fauna species, including nesting birds) during construction. Appropriate steps/care should be taken to minimize attraction of nest predators to the site.

G. **Education:** Prior to commencement of construction activities, the Qualified Biologist shall meet with the owner/permittee or designee and the construction crew and conduct an on-site educational session regarding the need to avoid impacts outside of the approved construction area and to protect sensitive flora and fauna (e.g., explain the avian buffers and clarify acceptable access routes/methods and staging areas, etc.).

II. During Construction

A. **Monitoring:** All construction (including access/staging areas) shall be restricted to areas previously identified, proposed for development/staging, or previously disturbed as shown on "Exhibit A" and/or the Biological Construction Mitigation/Monitoring Exhibit. The Qualified Biologist shall monitor construction activities as needed to ensure that construction activities do not encroach into biologically sensitive areas, or cause other similar damage, and that the work plan has been amended to accommodate any sensitive species located during the pre-construction surveys. In addition, the Qualified Biologist shall document field activity via the Consultant Site Visit Record. The Consultant Site Visit Record shall be e-mailed to Mitigation Monitoring Coordination on the 1st day of monitoring, the 1st week of each month, the last day of monitoring, and immediately in the case of any undocumented condition or discovery.

The Qualified Biologist shall monitor, as is feasible, for the presence of sensitive animals species and shall, if practicable, direct or move these animals out of harm's way (i.e., to a location of suitable habitat outside the impact footprint).

B. **Subsequent Resource Identification:** The Qualified Biologist shall note/act to prevent any new disturbances to habitat, flora, and/or fauna on site (e.g., flag plant specimens for avoidance during access, etc.). If active nests or other previously unknown sensitive resources are detected, all project activities that directly impact the resource shall be delayed until species specific local, State or federal regulations have been determined and applied by the Qualified Biologist.

III. Post Construction

In the event that impacts exceed previously allowed amounts, additional impacts shall be mitigated in accordance with City Biology Guidelines, ESL Ordinance and MSCP, CEQA, and other applicable local, State and federal laws. The Qualified Biologist shall submit a final Biological Construction Mitigation/Monitoring Exhibit /report to the satisfaction of the City Assistant Deputy Director /MMC within 30 days of construction completion.

8.2 MITIGATION FOR DIRECT IMPACTS

The following mitigation measures have been formulated to satisfy the requirements of the City's MSCP Subarea Plan and Biology Guidelines. The mitigation ratios used in this report follow the City's ESL Regulations tier system for impacts to sensitive upland habitats. The ratios used in this report are as follows and are consistent with all mitigation occurring in the MHPA.

- **Tier I**: maritime succulent scrub (1:1)
- **Tier II**: Diegan coastal sage scrub (1:1)
- **Tier IIIB**: Non-native grassland (0.5:1/1:1)
- **Tier IV**: Non-native vegetation, agriculture, disturbed land (0:1)

8.2.1 Mitigation for Direct Impacts to Upland Vegetation Communities

Per the City's Biology Guidelines (City 2012):

- For all Tier I impacts, the mitigation could (1) occur within the MHPA portion of Tier I (in Tier) or (2) occur outside of the MHPA within the affected habitat type (in-kind).
- For impacts to Tier II, III A and III B habitats, the mitigation could (1) occur within the MHPA portion of Tiers I – III (out-of-kind) or (2) occur outside of the MHPA within the affected habitat type (in-kind).

Table 6 presents the mitigation for significant, direct impacts to maritime succulent scrub (Tier I), Diegan coastal sage scrub (Tier II), Diegan coastal sage scrub-disturbed (Tier II), and non-native grassland (Tier IIIB). The City's Biology Guidelines list methods for mitigating upland impacts including: 1) off-site acquisition (i.e., purchase or dedication of land with equal or greater habitat value); 2) on-site preservation; 3) habitat restoration; and 4) monetary compensation. The project proposes on-site preservation and a combination of off-site acquisition and restoration as shown in Table 6. All proposed mitigation land is either in the MHPA or would be added to the MHPA, and this is reflected in the mitigation ratios in Table 6.

Table 6 MITIGATION FOR SIGNIFICANT DIRECT IMPACTS TO VEGETATION COMMUNITIES[1]							
Vegetation Community	**Impacts[2] (Inside/Outside MHPA)**	**Mitigation Ratio[3]**	**Required Mitigation[4,5]**	**On-Site Preservation[6]**	**Off-site Preservation/ Restoration Barton Parcels**	**Off-site Preservation Sorenson Parcels**	**Total Mitigation**
Maritime succulent scrub (Tier I)	--/0.5	1:1	0.5	--	--/--	0.5	0.5
Diegan coastal sage scrub (Tier II)[6]	1.5/1.7	1:1	3.2	1.1	0.2/0.9	1.0	3.2
Non-native grassland (Tier IIIB)	0.5/2.4	1:1 (inside MHPA) 0.5:1 (outside MHPA)	0.5 (inside MHPA) 1.2 (inside MHPA)	0.8	0.6/--	0.3	1.7
TOTAL	**2.0/4.6**	**--**	**5.4**	**1.9**	**1.7**	**1.8**	**5.4**

[1]Impacts and mitigation presented in acres and reflect rounding.
[2]Includes 1.2 acres of Airway Road impacts allowed within the MHPA and 0.8 acre of impact to be deleted from the MHPA through the MHPA BLA process pursuant to the MSCP Subarea Plan.
[3]All mitigation land would be in the MHPA, or added to the MHPA, and this is reflected in the mitigation ratios and required mitigation.
[4]The project will comply with City ESL regulations and place of a covenant of easement over non-impacted ESL areas of the site.
[5]If the BUOW is found to be present during the pre-construction/take avoidance survey (see Section 8.2.2, *Mitigation for Direct Impacts to Sensitive Animal Species*), the mitigation for non-native grassland must be through the conservation of occupied BUOW habitat or conservation of lands appropriate for restoration, management, and enhancement of BUOW nesting and foraging requirements.
[6]Includes Diegan coastal sage scrub-disturbed.

Proposed on-site preservation includes a total of 1.9 acres of Diegan coastal sage scrub, Diegan coastal sage scrub-disturbed, and non-native grassland (Figure 5). In accordance with the City's Protection and Notice Element, the on-site preservation, which is in the MHPA, is proposed to be protected from future development by its dedication to the City in fee title. In order to provide assurances that the land will be adequately managed and monitored in a manner consistent with Section 1.5, Preserve Management, of the City's MSCP Subarea Plan, long-term management of the land would be the responsibility of, and provided by, the City.

On the Barton parcels (Assessor Parcel Numbers 64609301 and 64609302), a total of 0.8 acres of Diegan coastal sage scrub and non-native grassland are proposed to be preserved, and 0.9 acre of Diegan coastal sage scrub is proposed to be restored. The Barton parcels are located immediately west of the project site (Figure 5) and have been acquired by Colrich Communities. Proposed restoration would involve restoring agricultural land and disturbed land to create Diegan coastal sage scrub. A plan for coastal sage scrub restoration on the Barton parcels is included as Appendix F and shall be approved by the City as a condition of project approval. In accordance with the City's Protection and Notice Element, the parcels will be protected from future development as follows.

Since portions of both Barton parcels are being restored, Colrich Communities will record a temporary Covenant of Easement and Irrevocable Offer to Dedicate prior to issuance of the grading permit since the City will not accept fee title of property with restoration obligations until five-year success is achieved. Following the five-year success period, the parcels will be dedicated to the City in fee title.

In order to provide assurances that the parcels will be adequately managed and monitored in a manner consistent with Section 1.5, Preserve Management, of the City's MSCP Subarea Plan, long-term management of the parcels will be the responsibility of, and provided by, the City.

Mitigation on the two Sorenson parcels (Assessor Parcel Numbers 64609123 and 64609124—a total of 1.8 acres supporting maritime succulent scrub) is proposed to include preservation of 0.5 acre for impacts to maritime succulent scrub, 1.0 acre for impacts to Diegan coastal sage scrub, and 0.3 acre for impacts to non-native grassland (Figure 5). The mitigation for the Diegan coastal sage scrub and non-native grassland impacts is being up-tiered on this site. That is, impacts to Tier II and Tier III habitats would be mitigated with Tier I maritime succulent scrub. Colrich Communities is under contract to purchase the Sorenson parcels, which are located southwest of the project and within the CVSP Area (Figure 5). In accordance with the City's Protection and Notice Element, the parcels will be protected from future development by their dedication to the City in fee title. In order to provide assurances that the parcels will be adequately managed and monitored in a manner consistent with Section 1.5, Preserve Management, of the City's MSCP Subarea Plan, long-term management of the parcels will be the responsibility of, and provided by, the City.

MHPA Boundary Adjustment Criteria

The Lumina Tentative Map Project proposes to remove 0.8 acre from the MHPA for development of Lot 1 (which includes the private drive) and proposes to add 3.1 acres of land on the Barton and Sorenson parcels to the MHPA for a net gain to the MHPA of 2.3 acres (Figure 6). The location of the private drive off of Airway Road in the MHPA is the result of the Otay Mesa Community Plan Circulation Element and not the result of Lumina Tentative Map Project design. Since all of the project mitigation would be in the MHPA, or added to the MHPA, this is reflected in the mitigation ratios for the project's impacts shown in Table 6.

On the Barton parcels, 0.3 acre of non-native grassland is proposed be added to the MHPA, and 1.0 acre of agriculture and disturbed land is proposed be added to the MPHA and restored to Diegan coastal sage scrub.

On the Sorenson parcels, 1.8 acres supporting maritime succulent scrub is proposed to be added to the MHPA. The preservation of maritime succulent scrub is for impacts to maritime succulent scrub as well as up-tiering for impacts to Diegan coastal sage scrub and to non-native grassland.

The Barton parcels are located immediately west of the project site, and like the project site, they are in the CVSP Area and have been acquired by Colrich Communities. Colrich Communities is under contract to purchase the Sorenson parcels, which are located southwest of the project site and also within the CVSP Area (Figure 6).

Impacts to the MHPA from the extension of Airway Road on site were planned by the Otay Mesa Community Plan Update and evaluated in the Final Environmental Impact Report (City 2014). Airway Road is an essential public facility and is, therefore, "considered conditionally compatible with the biological objectives of the MSCP and allowed within the City's MHPA" (City 1997). Therefore, no MHPA boundary line adjustment for the Airway Road extension is needed.

The six boundary adjustment criteria are addressed below.

1. *Effects on significantly and sufficiently conserved habitats (i.e., the exchange maintains or improves the conservation, configuration, or status of significantly and sufficiently conserved habitats, as defined in Section 3.4.2 [of the MSCP Plan]).*

Overall, the proposed boundary adjustment would result in a net gain to the MHPA of 2.3 acres, which would include no decrease of habitat within the MHPA. The project proposes to remove 0.8 acre of agriculture, non-native grassland, and Diegan coastal sage scrub from the MHPA but proposes to add 3.1 acres of non-native grassland, restored Diegan coastal sage scrub, and maritime succulent scrub (up-tier for non-native grassland, and Diegan coastal sage scrub) to the MHPA. The MHPA adjustment will result in a superior preserve design by enlarging the overall size of the MHPA. Figure 6 shows the 0.8 acre proposed to be removed from the MHPA and how the proposed MHPA additions would connect with the existing MHPA.

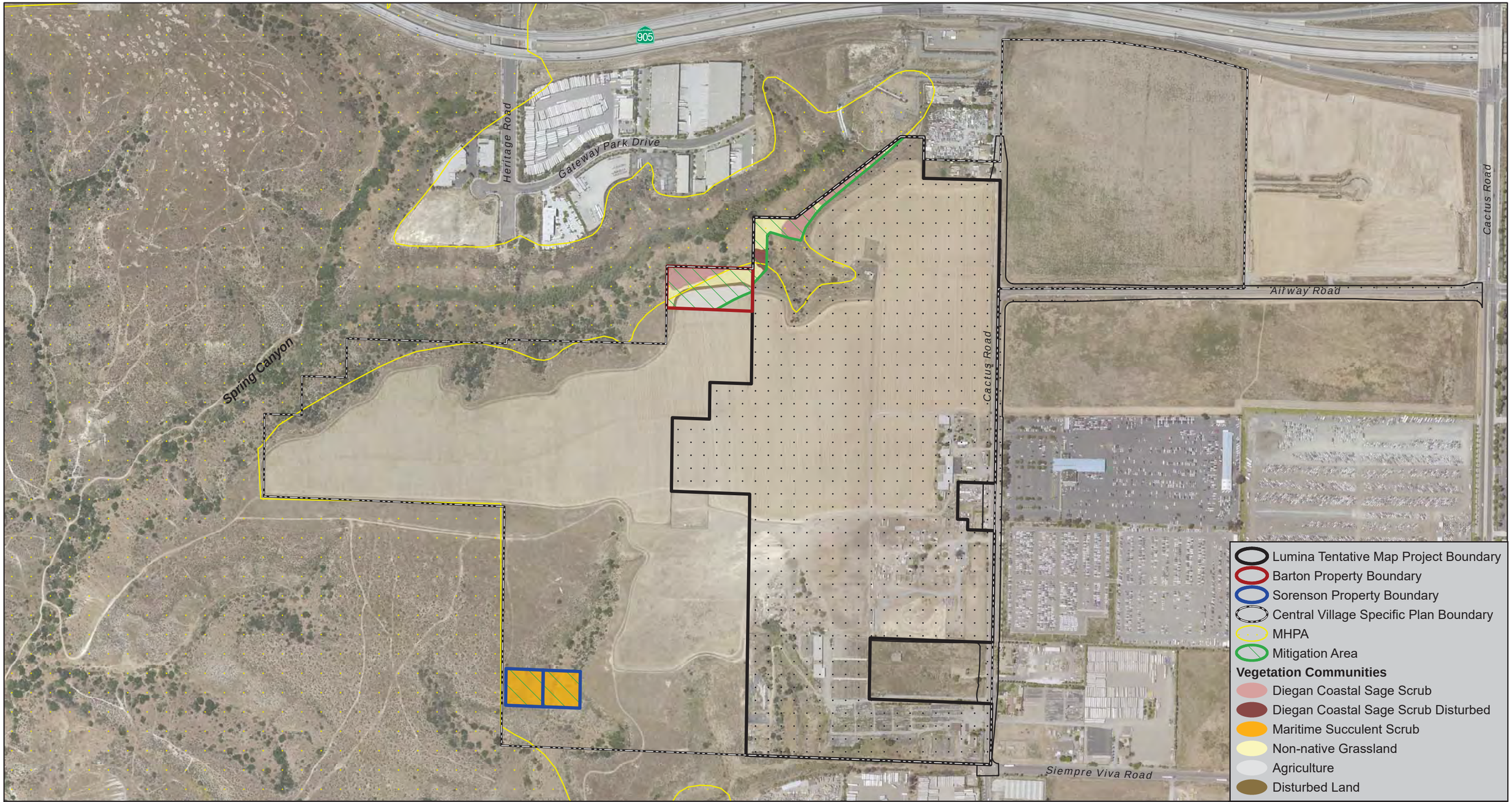


Figure 5

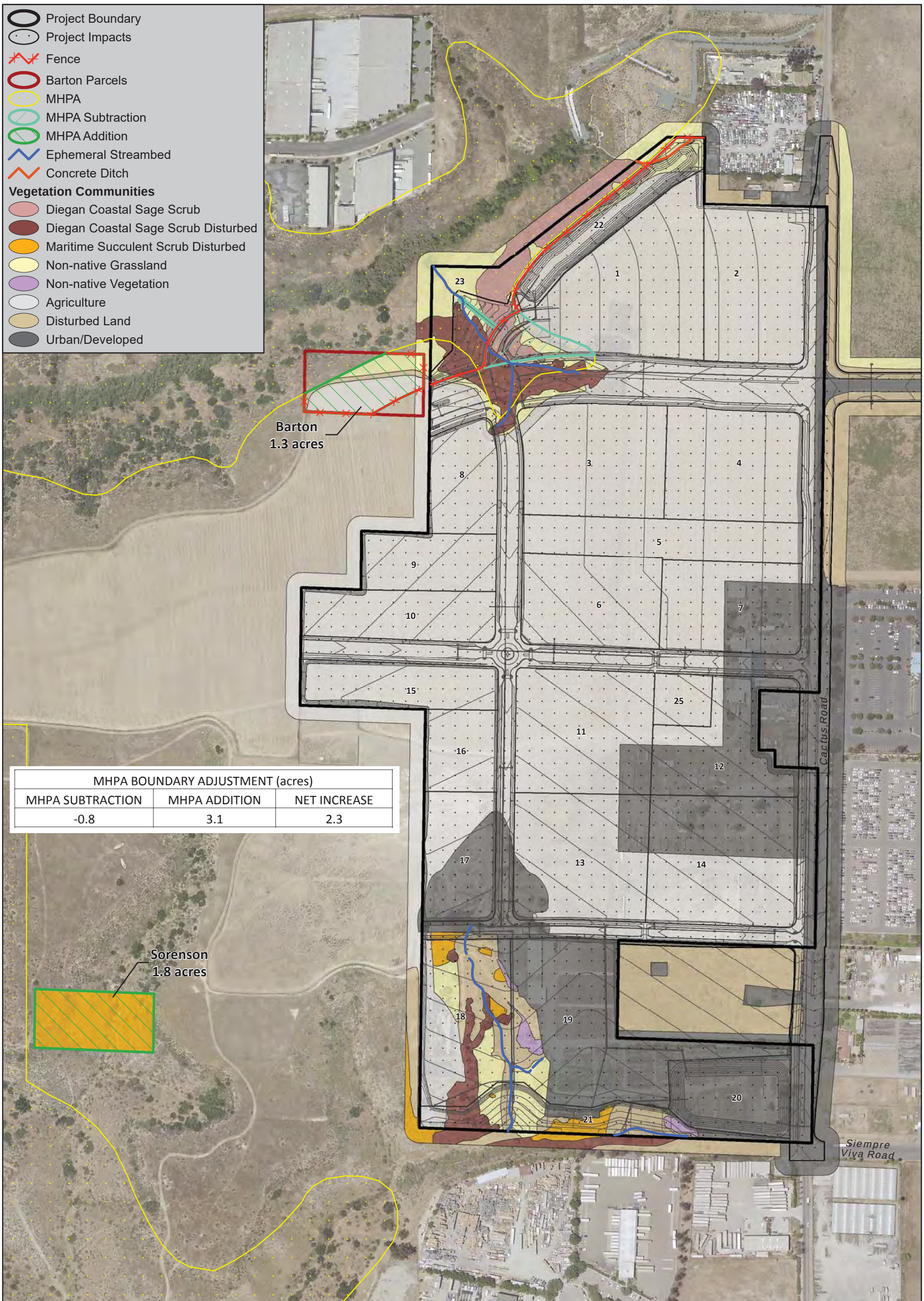
Proposed Upland Mitigation

LUMINA TENTATIVE MAP PROJECT

N
W E
S

0 250 500 Feet

ALDEN ENVIRONMENTAL, INC



MHPA BOUNDARY ADJUSTMENT (acres)		
MHPA SUBTRACTION	MHPA ADDITION	NET INCREASE
-0.8	3.1	2.3

N
W E
S
0 150 300
Feet

ALDEN ENVIRONMENTAL, INC

Figure 6

MHPA Boundary Adjustment

LUMINA TENTATIVE MAP PROJECT

2. *Effects on covered species (i.e., the exchange maintains or increases the conservation of covered species).*

The 3.1 acres that would be added to the MHPA consist of Diegan coastal sage scrub (including that to be restored), non-native grassland, and maritime succulent scrub, which is functionally similar to the 0.8 acre of agriculture, non-native grassland, and Diegan coastal sage scrub proposed to be removed from the MHPA. The exchange, with a net gain of 2.3 acres of habitat to the MHPA, would benefit covered species including the orange-throated whiptail, coastal California gnatcatcher, and northern harrier observed during project surveys and that have high potential to utilize the mitigation parcels.

3. *Effects on habitat linkages and function of preserve areas (i.e., the exchange maintains or improves any habitat linkages or wildlife corridors).*

The area proposed to be removed from the MHPA is at the upper end of a tributary to Spring Canyon adjacent to planned Airway Road on site. Consistent with the conclusion reached by the Otay Mesa Community Plan Update FEIR (City 2014), construction of Airway Road, would be to a portion of the upper slopes of Spring Canyon; the remainder of the canyon would not be impacted. Therefore, the area proposed to be removed from the MHPA would avoid significant disruption of corridor usage. The same conclusion can be made for the private drive off of Airway Road and an adjacent small portion of Lot 1 proposed to be removed from the MHPA, which affect the same general area (i.e., a small tributary to Spring Canyon). Therefore, the boundary adjustment will have no negative effect on habitat linkages, and in the case of Spring Canyon where the Barton parcels lie, would improve connectivity by increasing the width of the MHPA within and adjacent to Spring Canyon.

4. *Effects on preserve configuration and management (i.e., the exchange results in similar or improved management efficiency and/or protection of biological resources).*

The proposed MHPA boundary adjustment would not lessen management efficiency. The areas proposed for addition support the same habitats and topography as that which occurs within the existing, contiguous MHPA. The Barton parcels can be accessed via the existing MHPA or from the project site. The Sorenson parcels can be accessed via the existing MHPA or from adjacent undeveloped land comprised of a mesa top with dirt roads. Therefore, the new MHPA lands and would not require new or significantly increased management measures.

5. *Effects on ecotones or other conditions affecting species diversity (i.e., the exchange maintains topographic and structural diversity and habitat interfaces of the preserve).*

The boundary adjustment would maintain topographic and structural diversity and habitat interfaces of the MHPA. The Barton parcels MHPA addition includes preservation of non-native grassland and restoration of Diegan coastal sage scrub in a portion of Spring Canyon adjacent to Diegan coastal sage scrub already in the preserve in Spring Canyon (see Figure 6).

The Sorenson parcels would also maintain topographic and structural diversity and habitat interfaces of the MHPA. The parcels include mesa tops and a tributary drainage to Wruck Canyon supporting maritime succulent scrub. All of these features are also present in the adjacent MHPA (see Figure 6).

6. *Effects on species of concern not on the covered species list (i.e., the exchange does not significantly increase the likelihood that an uncovered species will meet the criteria for listing under either the federal or state ESAs).*

The MHPA adjustment would result in a net increase to the MHPA with the same or similarly functioning habitats to those proposed to be removed. The net increase in the preserve size would provide more area for species of concern to inhabit.

In conclusion, the proposed MHPA boundary adjustment would provide functionally equivalent biological value to that being impacted and justifies the use of the impact ratios presented in Table 6.

8.2.2 Mitigation for Direct Impacts to Sensitive Animal Species

Orange-throated Whiptail, California Horned Lark and Northern Harrier

Direct impacts to the orange-throated whiptail, California horned lark, and northern harrier (i.e., raptor foraging) shall be mitigated through implementation of the *Mitigation for Direct Impacts to Upland Vegetation Communities* described above in Section 8.2.1.

Coast Horned Lizard, Red-diamond Rattlesnake, Southern California Rufous-Crowned Sparrow, Loggerhead Shrike, and San Diego Black-tailed Jackrabbit

Potential direct impacts to the coast horned lizard, red-diamond rattlesnake, southern California rufous-crowned sparrow, loggerhead shrike, and San Diego black-tailed jackrabbit shall also be mitigated through implementation of the *Mitigation for Direct Impacts to Upland Vegetation Communities* described above in Section 8.2.1.

Coastal California Gnatcatcher

Direct impacts to the CAGN in the MHPA shall be mitigated through implementation of the *Mitigation for Direct Impacts to Upland Vegetation Communities* described above in Section 8.2.1.

Burrowing Owl

Potential direct impacts to the BUOW shall be mitigated as follows.

Preconstruction Survey Element

Prior to Permit or Notice to Proceed Issuance:

1. As this project site has been determined to be BUOW occupied or to have BUOW occupation potential, the Permit Holder shall submit evidence to the Assistant Deputy Director of Entitlements verifying that a Biologist possessing qualifications pursuant "Staff Report on Burrowing Owl Mitigation, State of California Natural Resources Agency Department of Fish and Game. March 7, 2012 (hereafter referred as CDFG 2012, Staff Report), has been retained to implement a BUOW construction impact avoidance program.

2. The Qualified BUOW Biologist (or their designated biological representative) shall attend the pre-construction meeting to inform construction personnel about the City's BUOW requirements and subsequent survey schedule.

Prior to Start of Construction:

1. The Permit Holder and Qualified Biologist must ensure that initial pre-construction/take avoidance surveys of the project "site" are completed between 14 and 30 days before initial construction activities, including brushing, clearing, grubbing, or grading regardless of the time of the year. "Site" means the project site and the area within a radius of 450 feet of the project site. The report shall be submitted and approved by the Wildlife Agencies (WAs) and/or City MSCP staff prior to construction or BUOW eviction(s) and shall include maps of the project site and BUOW locations on aerial photos.

2. The pre-construction survey shall follow the methods described in CDFG 2012, Staff Report -Appendix D *(please note, in 2013, CDFG became California Department of Fish and Wildlife).*

3. 24 hours prior to commencement of ground disturbing activities, the Qualified Biologist shall verify results of pre-construction/take avoidance surveys. Verification shall be provided to the City's Mitigation Monitoring and Coordination (MMC) Section. If results of the pre-construction surveys have changed and BUOW are present in areas not previously identified, immediate notification to the City and WAs shall be provided prior to ground disturbing activities.

During Construction:

1. **Best Management Practices shall be employed** as BUOWs are known to use open pipes, culverts, excavated holes, and other burrow-like structures at construction sites. Legally permitted active construction projects which are BUOW occupied and have followed all protocol in this mitigation section, or sites within 450 feet of occupied BUOW areas, should undertake measures to discourage BUOWs from re-colonizing previously occupied areas or colonizing new portions of the site. Such measures include, but are not limited to, ensuring that the ends of all pipes and culverts are covered when they are not being worked on, and covering rubble piles, dirt piles, ditches, and berms.

2. **On-going BUOW Detection** - If BUOWs or active burrows are not detected during the pre-construction surveys, Section "A" below shall be followed. If BUOWs or burrows are detected during the pre-construction surveys, Section "B" shall be followed. Neither the MSCP subarea plan nor this mitigation section allows for any BUOWs to be injured or killed outside or within the MHPA; in addition, impacts to BUOWs within the MHPA must be avoided.

A. Post Survey Follow-Up if BUOW and/or Signs of Active Natural or Artificial Burrows Are Not Detected During the Initial Pre-Construction Survey

Monitoring the site for new burrows is required using Appendix D protocol for the period following the initial pre-construction survey until construction is scheduled to be complete and is complete *(NOTE - Using a projected completion date [that is amended if needed] will allow development of a monitoring schedule which adheres to the required number of surveys in the detection protocol)*

1) If no active burrows are found but BUOWs are observed to occasionally (1-3 sightings) use the site for roosting or foraging, they should be allowed to do so with no changes in the construction or construction schedule.

2) If no active burrows are found but BUOWs are observed during follow-up monitoring to repeatedly (4 or more sightings) use the site for roosting or foraging, the City's MMC Section shall be notified, and any portion of the site where owls have been observed and that has not been graded or otherwise disturbed shall be avoided until further notice.

3) If a BUOW begins using a burrow on the site at any time after the initial pre-construction survey, procedures described in Section B must be followed.

4) Any actions other than these require the approval of the City and the WAs.

B. Post Survey Follow-Up if BUOWs and/or Active Natural or Artificial Burrows are detected during the Initial Pre-Construction Survey

Monitoring the site for new burrows is required using the Appendix D CDFG 2012 Staff Report for the period following the initial pre-construction survey until construction is scheduled to be complete and is complete *(NOTE - Using a projected completion date [that is amended if needed] will allow development of a monitoring schedule which adheres to the required number of surveys in the detection protocol).*

1) This section (B) applies only to sites (including biologically defined territory) wholly outside of the MHPA – **all direct and indirect impacts to BUOWs within the MHPA SHALL be avoided.**

2) If one or more BUOWs are using any burrows (including pipes, culverts, debris piles *etc.*) on or within 300 feet of the proposed construction area, the City's MMC Section shall be contacted. The City's MMC Section shall contact the WAs regarding eviction/collapsing burrows and shall enlist appropriate City biologist for on-going coordination with the WAs and the Qualified BUOW Biologist. No construction shall occur within 300 feet of an active burrow without written concurrence from the WAs. This distance may increase or decrease, depending on the burrow's location in relation to the site's topography and other physical and biological characteristics.

a) **Outside the Breeding Season** - If the BUOW is using a burrow on site outside the breeding season (i.e., September 1 – January 31), the BUOW may be evicted after the qualified BUOW biologist has determined via fiber optic camera or other appropriate device, that no eggs, young, or adults are in the burrow and written concurrence from the WAs for eviction is obtained prior to implementation.

b) **During Breeding Season** - If a BUOW is using a burrow on site during the breeding season (February 1– August 31), construction shall not occur within 300 feet of the burrow until the young have fledged and are no longer dependent on the burrow, at which time the BUOWs can be evicted. Eviction requires written concurrence from the WAs prior to implementation.

3. Survey Reporting During Construction - Details of construction surveys and evictions (if applicable) carried out shall be immediately (within 5 working days or sooner) reported to the City's MMC Section and the WAs and must be provided in writing (as by e-mail) and acknowledged to have been received by the required agencies and Development Services Department Staff member(s).

Post Construction:

1. Details of the all surveys and actions undertaken on site with respect to BUOWs (i.e., occupation, eviction, locations, etc.) shall be reported to the City's MMC Section and the WAs within 21 days post-construction and prior to the release of any grading bonds. This report must include summaries off all previous reports for the site, maps of the project site, and BUOW locations on aerial photos.

8.3 MITIGATION FOR INDIRECT IMPACTS

8.3.1 Raptor Nesting

Due to the potential for the northern harrier and BUOW to nest in the MHPA, a 900-foot impact avoidance area shall be maintained for any active northern harrier nest, and a 300-foot impact avoidance area shall be maintained for any active BUOW burrow in the MHPA. See Section 8.1, *Biological Resources Protection…Avian Protection*, Subsection I.E, *Avian Protection Requirements* and Section 8.2.2, *Mitigation for Direct Impacts to Sensitive Animal Species, Burrowing Owl*.

8.3.2 Potential Loss of Primary Prey Base for Coast Horned Lizard

Due to the potential for container stock to be used in on-site habitat restoration to contain Argentine ants, which is a threat to the native ant prey base of the coast horned lizard, all container stock to be used for on-site habitat restoration shall be inspected prior to delivery to the site for the presence of Argentine ants. Only stock that is determined to be free from Argentine ants shall be used.

With implementation of the mitigation measures listed in Section 8.0, *Mitigation Measures*, the project's significant, or potentially significant, impacts to sensitive biological resources would be reduced to less-than-significant levels.

9.0 REFERENCES

Alden Environmental, Inc. 2017. Central Village Specific Plan Biological Resources Report Addendum. January.

2016a. Sensitive Plant Species Survey Report. Letter to Ms. Rita Mahoney, ColRich. July 13.

2016b. 2016 Report U.S. Fish and Wildlife Service Protocol Level Presence/Absence Survey for the Quino Checkerspot Butterfly. June 23.

2016c. Burrowing Owl Survey Report for Otay Canyon Ranch. Letter to Ms. Rita Mahoney, ColRich. June 30.

2015a. 2015 Report U.S. Fish and Wildlife Service Protocol Level Presence/Absence Surveys for the Quino Checkerspot Butterfly. June 10.

2015b. Burrowing Owl Survey Report for Otay Canyon Ranch. Letter to Ms. Rita Mahoney, ColRich. July 9.

2014. Burrowing Owl Survey Report for Spring Canyon Ranch. Letter to Ms. Rita Mahoney, ColRich. August 11.

American Ornithological Society. 2017. Checklist of North and Middle American Birds. http://www.americanornithology.org/content/checklist-north-and-middle-american-birds

Bowman, R. 1973. *Soil Survey of the San Diego Area*. U.S. Department of Agriculture in cooperation with the USDI, UC Agricultural Experiment Station, Bureau of Indian Affairs, Department of the Navy, and the U.S. Marine Corps.

California Department of Fish and Game. 2012. Staff Report on Burrowing Owl Mitigation. March 7.

California Department of Fish and Wildlife. 2017. Special Animals List. October. https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109406&inline

California Native Plant Society. 2017. Inventory of Rare and Endangered Plants (online edition, v8-03 0.39). California Native Plant Society, Sacramento, CA. http://www.rareplants.cnps.org

City of San Diego. 2015. Otay Mesa Community Plan Update. June. http://www.sandiego.gov/planning/community/profiles/otaymesa/pdf/otaymesa.pdf

2014. Otay Mesa Community Plan Update Final Environmental Impact Report. Revised February 21.

2012. Land Development Code Biology Guidelines. Adopted September 1999. Last amended April 23, 2012 by Resolution No. R-307376.

1997a. Multiple Species Conservation Program. City of San Diego MSCP Subarea Plan. March.

1997b. City of San Diego MSCP Implementing Agreement Documents.

Crother, B.I. 2008. Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, with Comments Regarding Confidence in Our Understanding. Sixth Edition. Society for the Study of Amphibians and Reptiles. Herpetological Circular # 37. January.

Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi. 100 pp. with Appendices.

Environmental Protection Agency. 2013. Wetlands Definitions. http://water.epa.gov/lawsregs/guidance/wetlands/definitions.cfm

Hickman, J.C., ed. 1993. The Jepson Manual: Higher Plants of California. University of California Press, Berkeley, 1400 pp.

Holland, R.F. 1986. Preliminary Descriptions of the Terrestrial Natural Communities of California. State of California, The Resources Agency. 156 pp.

Jones, J.K., D.C. Carter, H.H. Genoways, R.S. Hoffman and D.W. Rice. 1992. Revised Checklist of North American Mammals North of Mexico. Occasional Papers of the Museum, Texas Tech University 80: 1-22.

Oberbauer, T., M. Kelly, and J. Buegge. 2008. Vegetation Communities of San Diego County. Based on "Preliminary Descriptions of the Terrestrial Natural Communities of California," R.F. Holland, 1986. 73 pp.

RECON Environmental, Inc. 2013. Biological Resources Report for the Otay Mesa Community Plan Update, City of San Diego Project No. 30330/304032, SCH No. 2004651076.

Unitt, Philip. 2004. San Diego County Bird Atlas. No. 39. Proceedings of the San Diego Society of Natural History. October 31.

U.S. Army Corps of Engineers. 2008. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0). Eds. J.S. Wakely, R.W. Lichvar, and C.V. Noble. ERDC/EL TR-08-28. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

U.S. Fish and Wildlife Service. 2014. Quino Checkerspot Butterfly Survey Protocol. February 21.

1997. Coastal California Gnatcatcher (*Polioptila californica californica*) Presence/Absence Survey Protocol. August 6.

U.S. Geological Survey and San Diego State University, Department of Biology. 2001. Herpetofaunal Monitoring in MSCP Region of San Diego. March. URL: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=24783

Appendix A

Plant Species Observed

Appendix A
PLANT SPECIES OBSERVED
LUMINA TENTATIVE MAP PROJECT

FAMILY	SCIENTIFIC NAME	COMMON NAME	HABITAT[1]
Adoxaceae	*Sambucus nigra* ssp. *caerulea*	Blue Elderberry	DL, DCSS
Agavaceae	*Chlorogalum parviflorum*	Small-Flower Soap-Plant/Amole	NNG, DCSS
Alliaceae	*Allium* sp.	Onion	DCSS
Aizoaceae	*Mesembryanthemum crystallinum*[3]	Crystalline Iceplant	AG, DL, NNV
Amaranthaceae	*Amaranthus blitoides*[3]	Prostrate Amaranth	DL
Anacardiaceae	*Malosma laurina*	Laurel Sumac	DL, DCSS
	Rhus integrifolia	Lemonadeberry	DCSS, MSS
Apiaceae	*Foeniculum vulgare*[3]	Fennel	AG, DL, DCSS
	Sanicula arguta	Sharp Toothed Sanicle	AG, DL
Asteraceae	*Acourtia microcephala*	Sacapellote	DCSS
	Ambrosia chenopodiifolia[2]	San Diego Bursage	DL, DCSS
	Artemisia californica	Coastal Sagebrush	DCSS, MSS
	Artemisia dracunculus	Tarragon, Dragon Sagewort	DCSS
	Baccharis salicifolia	Mule Fat, Seep-Willow	DL
	Bahiopsis laciniata[2]	San Diego County Sunflower	NNG, DCSS, MSS
	Carduus pycnocephalus[3]	Italian Thistle	DL, AG, NNG, DCSS, MSS
	Centaurea melitensis[3]	Tocalote	DL, AG, NNG, DCSS, MSS
	Corethrogyne filaginifolia var. *filaginifolia*	Common Sand-Aster	DCSS
	Cotula coronipifolia[3]	Brass Buttons	DL
	Cynara cardunculus[3]	Artichoke	DL, AG, DCSS
	Deinandra fasciculata	Fascicled Tarweed	NNG, DCSS
	Dittrichia graveolens[3]	Stinkwort	DL, AG, NNG, DCSS
	Encelia californica	California Encelia	MSS
	Eriophyllum confertiflorum	Golden Yarrow	NNG, DCSS
	Glebionis coronaria[3]	Garland/Crown Daisy	DL, AG, DCSS
	Gnaphalium californicum	California Everlasting	DCSS
	Gutierrezia californica	Broom Matchweed	DCSS

	Hedypnois cretica[3]	Crete Hedypnois	AG, DL, NNG
	Hypochaeris glabra[3]	Smooth Cat's Ear	AG, DL, NNG
	Isocoma menziesii	Goldenbush	NNG, DCSS
	Lactuca serriola[3]	Prickly Lettuce	AG, DL, NNG
	Lasthenia californica	Common goldfields	DCSS
	Logfia gallica[3]	Narrow-Leaf Cottonrose	DL, NNG
	Silybum marianum[3]	Milk Thistle	AG, DL, NNG
	Sonchus asper ssp. *asper*[3]	Prickly Sow-Thistle	DL, NNG
	Xanthium strumarium	Cocklebur	NNG, DCSS
Boraginaceae	*Amsinckia menziesii*	Fiddleneck	NNG
	Cryptantha sp.	Cryptantha	DCSS
	Emmenanthe penduliflora	Whispering Bells	DCSS
	Eucrypta sp.	Eucrypta	DCSS, MSS
	Pectocarya sp.	Combseed	DL
	Phacelia distans[3]	Wild-Heliotrope	NNG
	Plagiobothrys collinus var. *gracilis*	San Diego Popcornflower	NNG, DCSS
Brassicaceae	*Brassica nigra*[3]	Black Mustard	AG, DL, NNG, DCSS, MSS
	Hirschfeldia incana[3]	Short-Pod Mustard	AG, DL, DCSS
	Lepidium sp. [3]	Pepper Grass	NNG
	Raphanus sativus[3]	Wild Radish	AG, NNG
	Sisymbrium irio[3]	London Rocket	NNG, DL, DCSS
Cactaceae	*Cylindropuntia prolifera*	Coast Cholla	MSS
	Ferocactus viridescens[2]	San Diego Barrel Cactus	NNG, DCSS, MSS
	Mammillaria dioica	Fish-Hook Cactus	MSS
	Opuntia ficus-indica[3]	Mission Fig	NNV
Caryophyllaceae	*Silene gallica*[3]	Windmill Pink	DCSS
Chenopodiaceae	*Atriplex canescens* var. *canescens*	Four-wing Saltbush	MSS
	Atriplex semibaccata[3]	Australian Saltbush	DL
	Chenopodium murale[3]	Nettle-Leaf Goosefoot	DL
	Salsola australis[3]	Australian Tumbleweed	AG, DL, NNG, DCSS, MSS
Cleomaceae	*Peritoma arborea* var. *arborea*	Coast Bladderpod	MSS
Convolvulaceae	*Calystegia macrostegia* ssp. *intermedia*	South Coast Morning-Glory	NNG
	Convolvulus arvensis[3]	Field Bindweed	NNG

	Convolvulus simulans[2]	Small-Flowered Morning Glory	NNG
Cucurbitaceae	*Marah macrocarpa*	Manroot, Wild-Cucumber	DCSS
Cactaceae	*Cylindropuntia prolifera*	Coast Cholla	MSS
Euphorbiaceae	*Euphorbia polycarpa*	Small-Seed Sandmat	DCSS
Fabaceae	*Acmispon glaber*	Deerweed	NNG, DCSS, MSS
	Astragalus trichopodus var. *lonchus*	Ocean Locoweed	MSS
	Medicago polymorpha[3]	Bur Clover	DL, AG
	Melilotus indicus[3]	Indian Sweetclover	DL, AG
Geraniaceae	*Erodium cicutarium*[3]	Red-Stem Filaree/Storksbill	DCSS, DL, NNG
Grossulariaceae	*Ribes speciosum*	Fuchsia-Flower Gooseberry	DCSS
Lamiaceae	*Marrubium vulgare*[3]	Horehound	DL, NNG, NNV, DCSS
	Salvia mellifera	Black sage	DL
	Stachys ajugoides	Ajuga Hedge-Nettle	DCSS
Liliaceae	*Calochortus splendens*	Splendid Mariposa Lily	NNG
Malvaceae	*Malva parviflora*[3]	Cheeseweed	DL
	Sidalcea malviflora	Checker Bloom	NNG
Montiaceae	*Cistanthe maritima*[2]	Seaside Calandrinia	NNG
Nyctaginaceae	*Mirabilis laevis* var. *crassifolia*	Coastal Wishbone Plant	DCSS
Oxalidaceae	*Oxalis pes-caprae*[3]	Bermuda buttercup	DCSS
Papaveraceae	*Eschscholzia californica*	California Poppy	DCSS, NNG
Plantaginaceae	*Plantago erecta*	Dot-Seed Plantain	DCSS
Poaceae	*Avena barbata*[3]	Slender Wild Oat	NNG
	Avena fatua[3]	Wild Oat	NNG
	Brachypodium distachyon[3]	Purple Falsebrome	NNG
	Bromus diandrus[3]	Ripgut Grass	DL, NNG
	Bromus madritensis ssp. *rubens*[3]	Foxtail Chess, Red Brome	NNG
	Cynodon dactylon[3]	Bermuda Grass	DL, NNG
	Hordeum murinum ssp. *glaucum*[3]	Glaucous Barley	NNG, AG
	Lamarckia aurea[3]	Golden-Top	NNG
	Melica imperfecta	Coast Range Melic	NNG
	Stipa lepida	Foothill Needlegrass	DCSS
	Stipa pulchra	Purple Needlegrass	DCSS
Polemoniaceae	*Gilia* sp.	Gilia	DCSS

Polygonaceae	*Eriogonum fasciculatum* var. *fasciculatum*	Coast California Buckwheat	DCSS, MSS
Portulacaceae	*Calandrinia menziesii*	Red Maids	NNG
	Claytonia perfoliata	Miner's Lettuce	DCSS
	Portulaca oleracea	Common Purslane	DL
Phytolaccaceae	*Phytolacca icosandra*	Tropical Pokeweed	DL
Primulaceae	*Primula clevelandii*	Padre's shooting star	DCSS
Ranunculaceae	*Clematis pauciflora*	Ropevine Clematis	DCSS
Rubiaceae	*Galium angustifolium* ssp. *angustifolium*	Narrow-Leaf Bedstraw	DCSS
	Galium nuttallii ssp. *nuttallii*	San Diego Bedstraw	DCSS
Saxifragaceae	*Jepsonia parryi*	Coast Jepsonia	DCSS
Selaginellaceae	*Selaginella bigelovii*	Bigelow's Spike-Moss	DCSS
Simmondsiaceae	*Simmondsia chinensis*	Jojoba, Goatnut	MSS
Solanaceae	*Lycium andersonii*	Waterjacket	MSS
	Nicotiana glauca[3]	Tree Tobacco	DL, NNG
	Solanum douglasii	Douglas' Nightshade	DCSS
Tamaricaceae	*Tamarix ramosissima*[3]	Saltcedar	DL
Themidaceae	*Bloomeria crocea* var. *crocea*	Common Goldenstar	DCSS, NNG
	Dichelostemma capitatum ssp. *capitatum*	Blue Dicks, School Bells	DCSS, NNG
Urticaceae	*Urtica urens*[3]	Dwarf Nettle	DCSS
Verbenaceae	*Verbena menthifolia*	Mint-Leaf Vervain	DCSS

[1]AG=agriculture; DL=disturbed land; DCSS=Diegan coastal sage scrub (including disturbed); MSS=maritime succulent scrub disturbed; NNG=non-native grassland; NNV=non-native vegetation

[2]Sensitive species

[3]Non-native species

Appendix B

Animal Species Observed or Detected

Appendix B
ANIMAL SPECIES OBSERVED OR DETECTED
LUMINA TENTATIVE MAP PROJECT

SCIENTIFIC NAME	COMMON NAME	HABITAT[1]
INVERTEBRATES		
Butterflies		
Anthocharis sara	Sara orangetip	DCSS
Apodemia mormo virgulti	Behr's metalmark	DCSS
Basilarchia lorquini	Lorquin's admiral	DCSS
Brephidium exilis	western pygmy blue	DCSS, NNG
Callophrys perplexa	perplexing (green) hairstreak	DCSS
Coenonympha californica	California ringlet	NNG
Colias sp.	sulphur	DCSS
Erynnis funeralis	funereal duskywing	DCSS, NNG
Eurema niciope	sleepy orange	DCSS
Heliopates ericetorum	northern white skipper	DCSS
Leptotes marina	marine blue	DCSS, MSS
Nymphalis antiopa	mourning cloak	DCSS
Papilio rutulus	western tiger swallowtail	DCSS
Pieris rapae	cabbage white	NNG, NNV
Pontia protodice	checkered white	NNG
Pyrgus albescens	white checkered skipper	DCSS
Strymon melinus	gray hairstreak	MSS
Vanessa anabella	west coast lady	DCSS
Vanessa atalanta	red admiral	DCSS
Vannessa cardui	painted lady	DCSS, MSS
Vanessa virginiensis	American lady	DCSS
VERTEBRATES		
Reptiles		
Aspidoscelis hyperythra[2]	orange-throated whiptail	DCSS
Lampropeltis californiae	California kingsnake	DCSS
Birds		
Accipiter cooperii[2]	Cooper's hawk	Flying overhead
Accipiter striatus[2]	sharp-shinned hawk	Flying overhead
Buteo jamaicensis	red-tailed hawk	Flying overhead
Callipepla californica	California quail	DCSS, NNG
Calypte anna	Anna's hummingbird	NNV, DCSS, MSS
Carduelis psaltria	lesser goldfinch	DCSS
Cathartes aura	turkey vulture	Flying overhead
Chamaea fasciata	wrentit	DCSS

Appendix B (cont.)
ANIMAL SPECIES OBSERVED OR DETECTED
LUMINA TENTATIVE MAP PROJECT

SCIENTIFIC NAME	COMMON NAME	
VERTEBRATES (cont.)		
Birds (cont.)		
Charadrius vociferus	killdeer	AG
Circus cyaneus[2]	northern harrier	DCSS
Columba livia	rock pigeon	AG
Corvus corax	common raven	DCSS
Cyanocompsa caerulea	blue grosbeak	DCSS
Empidonax difficilis	Pacific slope flycatcher	DCSS
Eremophila alpestris actia[2]	California horned lark	AG
Falco mexicanus	American kestrel	AG
Geococcyx californianus	greater roadrunner	DCSS
Geothlypis trichas	common yellowthroat	Heard
Haemorhous mexicanus	house finch	DCSS
Hirundo pyrrhonota	cliff swallow	Flying overhead
Melospiza melodia	song sparrow	DCSS
Melozone crissalis	California towhee	DCSS
Mimus polyglottos	northern mockingbird	DCSS
Myiarchus cinerascens	ash-throated flycatcher	DCSS
Passer domesticus	house sparrow	U/D
Pheucticus melanocephalus	black-headed grosbeak	Heard
Pipilo maculatus	spotted towhee	DCSS
Polioptila caerulea	blue-gray gnatcatcher	DCSS
Polioptila californica californica[2]	coastal California gnatcatcher	DCSS
Psaltriparus minimus	bushtit	DCSS
Sayornis nigricans	black phoebe	AG
Sayornis saya	Say's phoebe	NNG
Setophaga coronata	yellow-rumped warbler	DCSS
Stelgidopteryx serripennis	n rough-winged swallow	Flying overhead
Streptopelia decaocto	European collared dove	U/D
Sturnella neglecta	western meadowlark	NNG
Sturnus vulgaris	European starling	AG
Thryomanes bewickii	Bewick's wren	DCSS
Toxostoma redivivum	California thrasher	DCSS
Troglodytes aedon	house wren	DCSS
Tyrannus vociferans	Cassin's kingbird	AG
Vermivora celata	orange-crowned warbler	DCSS

Zenaida macroura	mourning dove	DCSS, AG, U/D
Zonotrichia leucophrys	white-crowned sparrow	DCSS

Mammals

Canis latrans	coyote (scat)	AG, NNG, DCSS
Capra hircus	domestic goat	AG, DCSS
Odocoileus hemionus	mule deer (scat)	NNG, AG, DCSS
Sylvilagus audubonii	desert cottontail	DCSS, AG, NNG

[1]AG=agriculture; DCSS=Diegan coastal sage scrub (including disturbed); MSS=maritime succulent scrub disturbed; NNG=non-native grassland; NNV=non-native vegetation; U/D=urban/developed

[2]Sensitive species

Appendix C

Quino Checkerspot Butterfly Survey Report

2018 Report
U.S. Fish and Wildlife Service Protocol Level Presence/Absence Surveys for the Quino Checkerspot Butterfly (*Euphydryas editha quino*)

Prepared for:

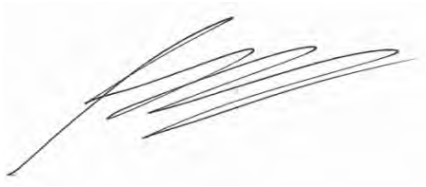
ColRich

Prepared by:

Alden Environmental, Inc.
3245 University Ave., #1188
San Diego, CA 92104

June 19, 2018

I certify that the information in this survey report and attached exhibits fully and accurately represent my work.



Greg Mason (TE 58862A-1)

Tara Baxter (TE87004B-0)

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C	Lists of Butterflies Observed During Each Survey

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INTRODUCTION

This report documents the results of a focused survey conducted for the federally listed as endangered quino checkerspot butterfly (QCB; *Euphydryas editha quino*) on the approximately 93-acre Lumina Tentative Map Project (project). The site is located south of State Route (SR) 905, west of Cactus Road, between Airway Road and Siempre Viva Road in the City of San Diego's (City's) Otay Mesa Community (Figures 1 and 2).

Surrounding land uses include industrial, agricultural and automobile salvage yards. Cactus Road borders the site to the east. Elevation on site ranges from 425 to 510 feet above mean sea level. Soil on site consists of Stockpen gravelly clay loam (0 to 2 percent slopes and 2 to 5 percent slopes) and Olivenhain cobbly loam (30 to 50 percent slopes; Bowman 1973). A small portion of the City MSCP's Multi-habitat Planning Area (MHPA) occurs at the northwest corner of the property, within the northern canyon.

METHODS

The surveys were performed in accordance with the Year 2014 Survey Guidelines (USFWS 2014b) by USFWS permitted biologists Greg Mason (TE-58862A) and Tara Baxter (TE87004B-0). A total of 13 protocol survey visits were conducted on site. All surveys were conducted between February 15 and May 8, 2018. Dates, times, and weather conditions at the start and end of each survey are presented in Appendix A. The surveys were conducted by slowly walking (approximately 5 - 10 acres per hour) transects through suitable habitat and noting butterflies and/or potential QCB resources present. The suitable habitat occurs on the northern and southern ends of the site where native habitat still occurs. Copies of field notes from each survey are presented in Appendix B. Lists of butterflies observed during each survey are presented in Appendix C.

RESULTS

No QCB were observed. The site is predominantly an active agricultural site with several structures and out buildings. Overall, the habitat quality for the QCB is low, with the only suitable habitat occurring at the northern and southern ends of the site, outside of the active agricultural and developed areas (Figures 3 and 4). The suitable QCB habitat components occur within and adjacent to the canyons on the north and south ends of the site. The only host plant observed was a single patch dot-seed plantain (*Plantago erecta*) at the northern end (Figures 3 and 4). Based on this and previous surveys, the QCB is not anticipated to occur on site.

REFERENCES

Bowman, R. 1973. Soil Survey of the San Diego Area. USDA in cooperation with USDI, UC Agricultural Experiment Station, Bureau of Indian Affairs, Department of the Navy, and the U.S. Marine Corps.

U.S. Fish and Wildlife Service (USFWS). 2014. Quino Checkerspot Butterfly (*Euphydryas editha quino*) 2014 Survey Guidelines. December.

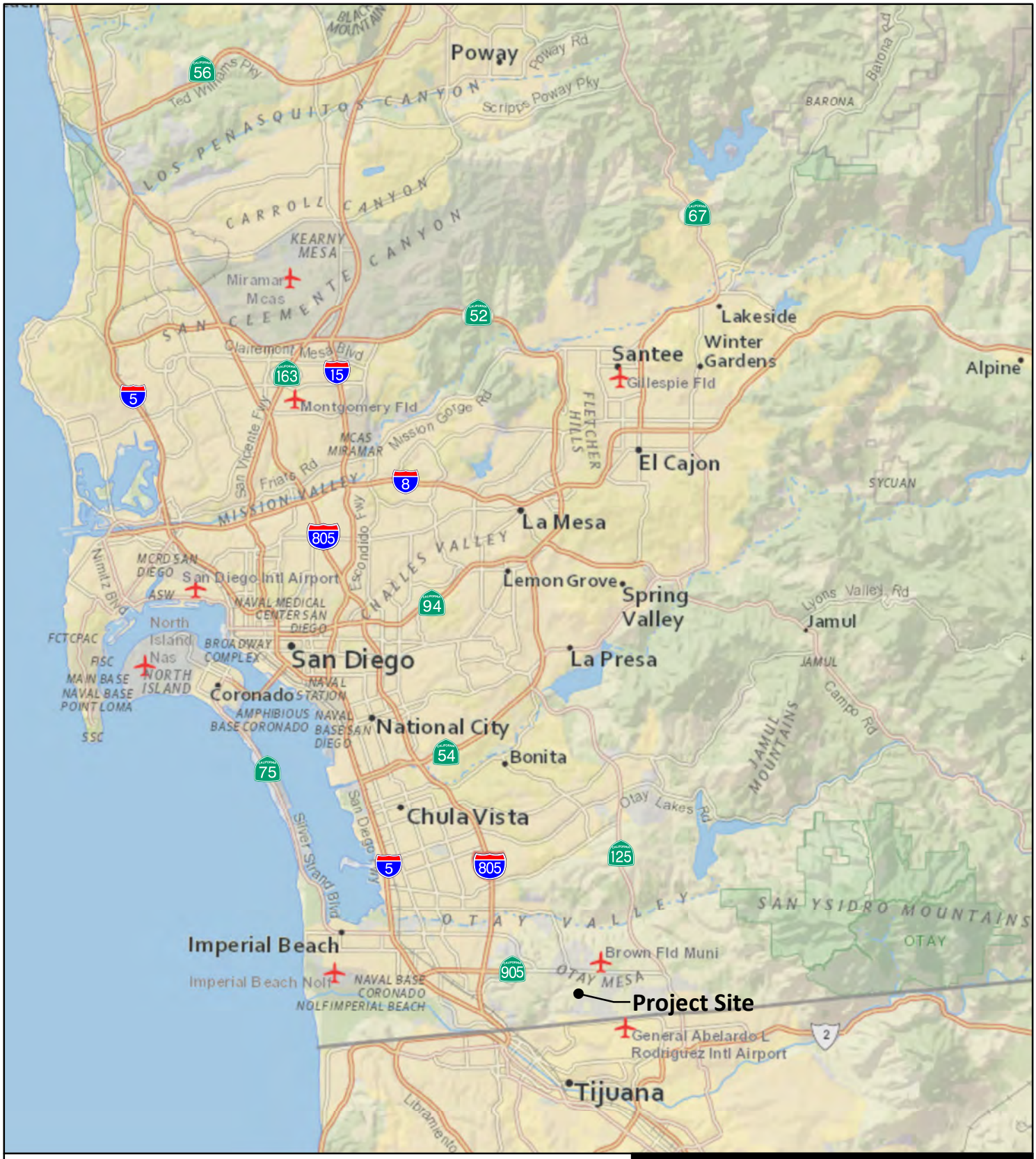


Figure 1

Regional Location

LUMINA TENTATIVE MAP PROJECT

N
W E
S

0 2 4 Miles

ALDEN ENVIRONMENTAL, INC

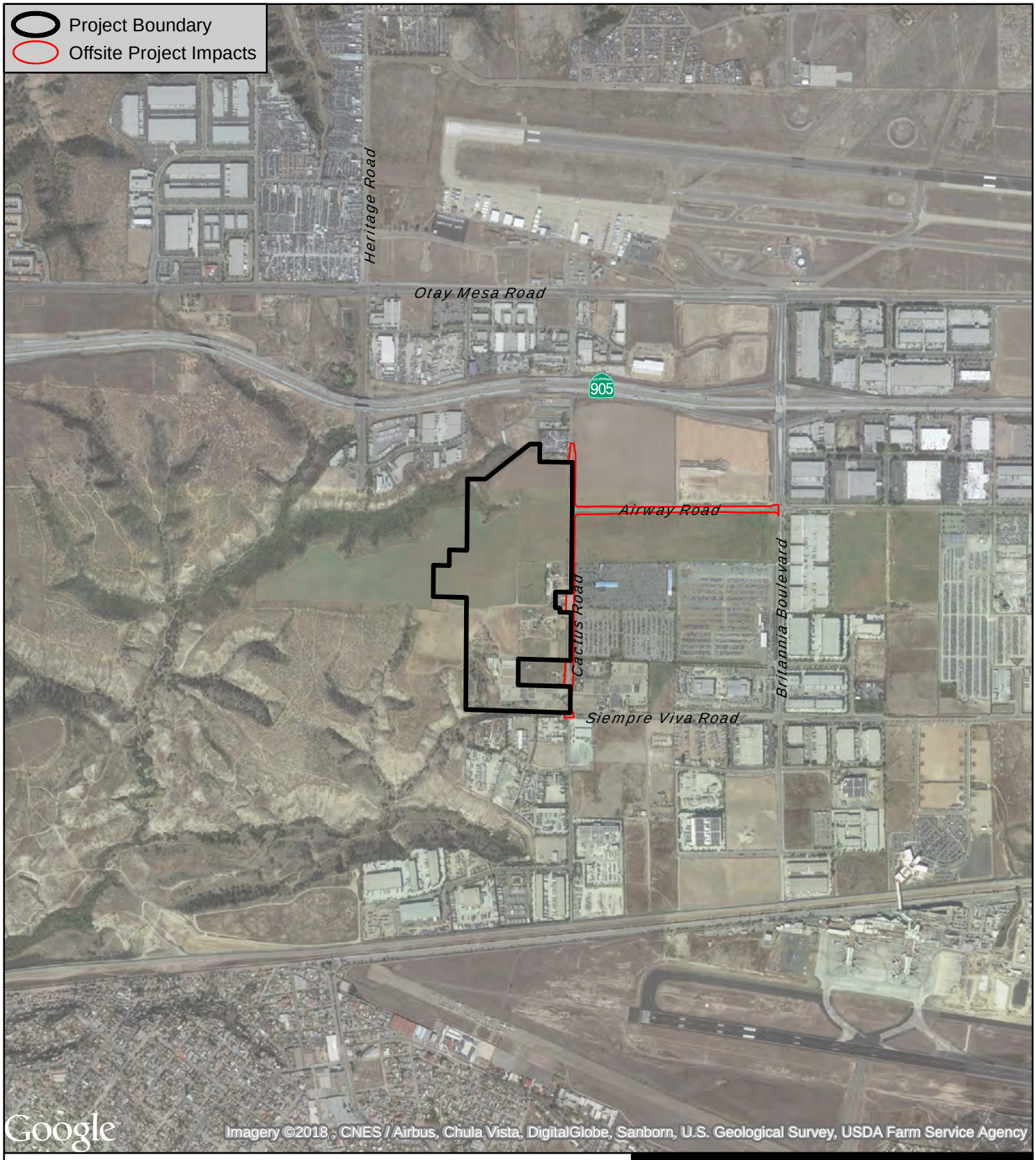


Figure 2

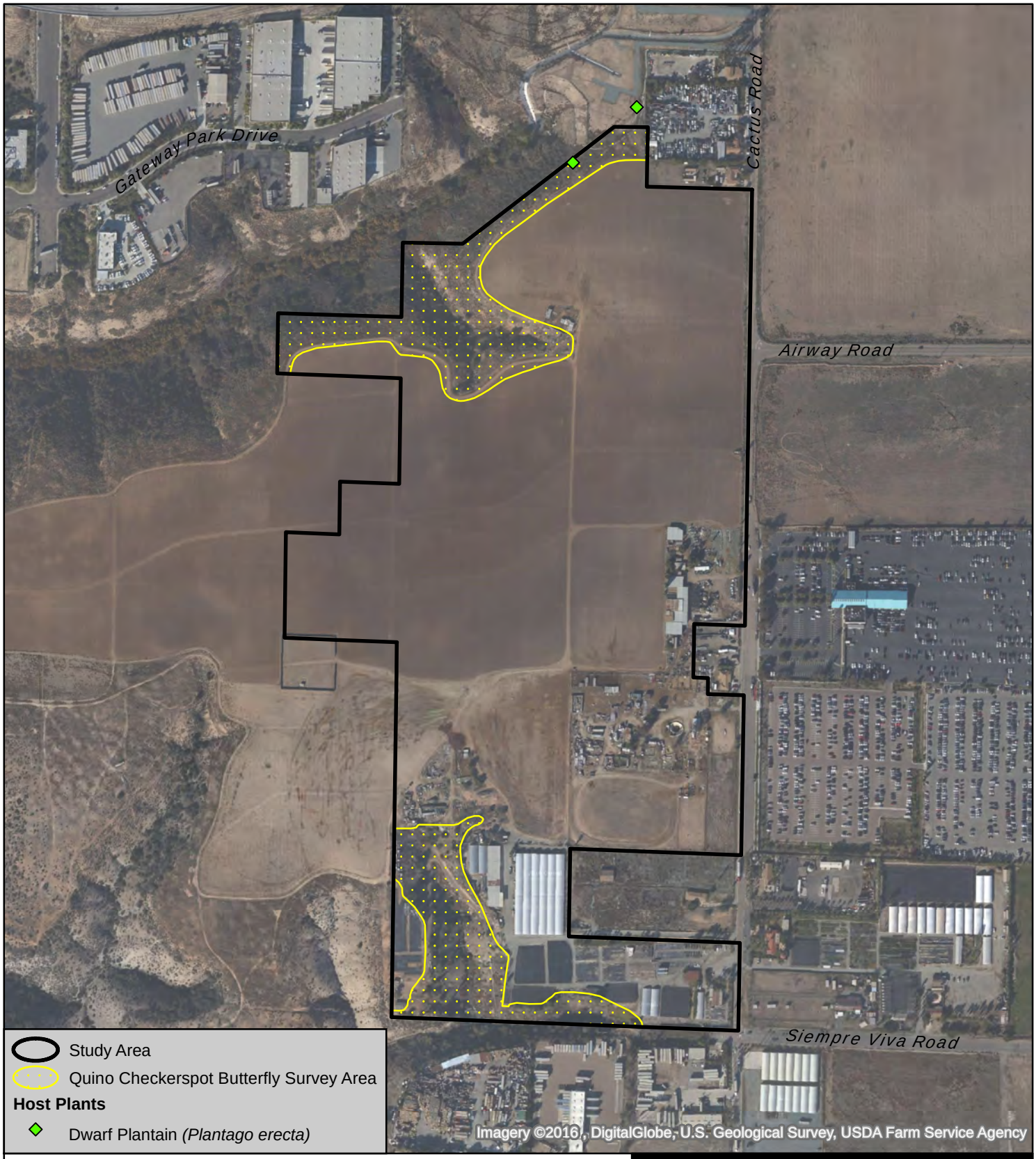
Project Location

LUMINA TENTATIVE MAP PROJECT

N
W E
S

0 1,000 2,000 Feet

ALDEN ENVIRONMENTAL, INC



Source: Google

N
W E
S

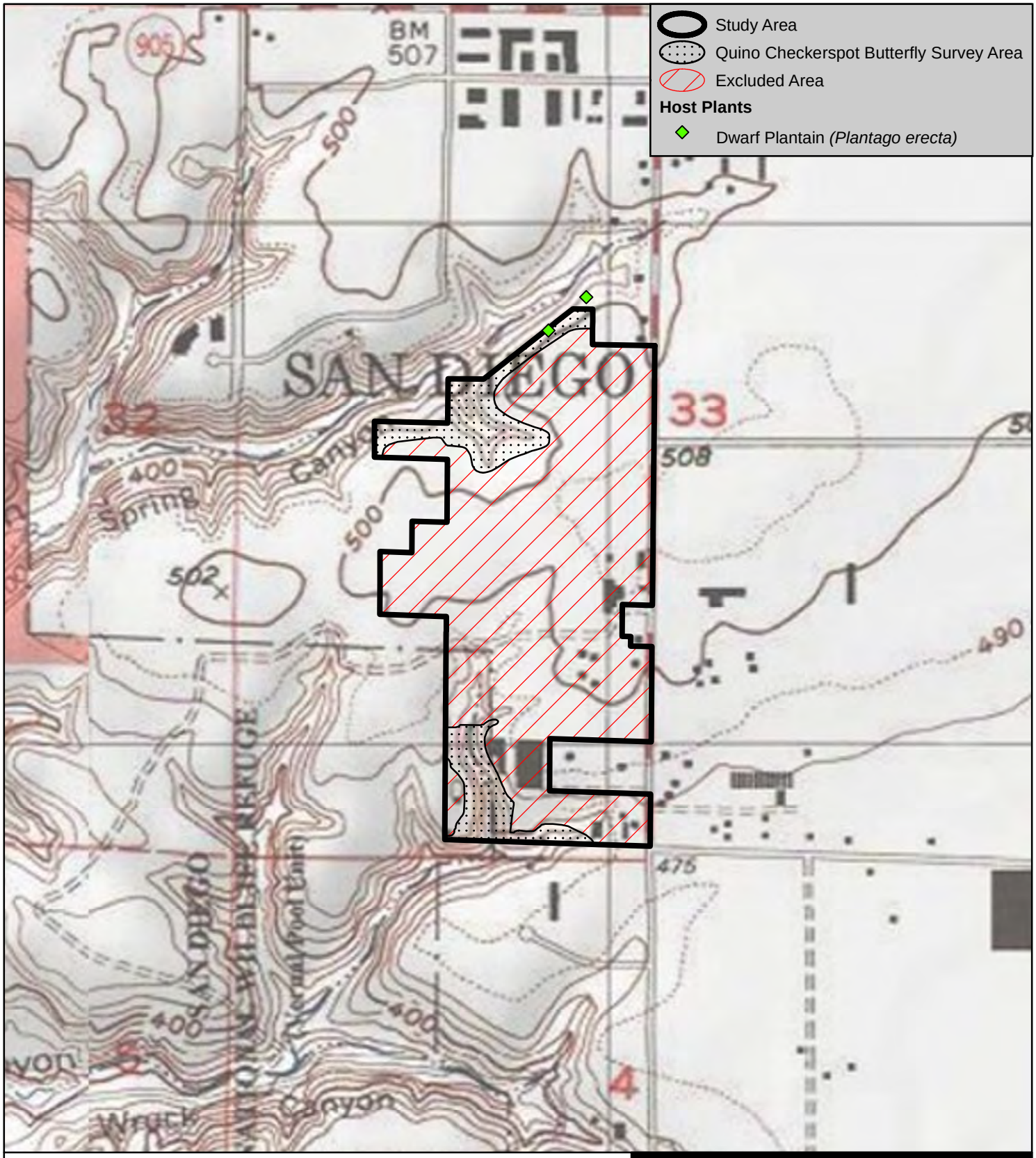
0 250 500 Feet

ALDEN ENVIRONMENTAL, INC

Figure 3

Survey Area

LUMINA TENTATIVE MAP PROJECT



Source: USGS Quadrangles (Otay Mesa, Imperial Beach); Copyright:© 2013 National Geographic Society, i-cubed

Figure 4

QCB Site Assessment

LUMINA TENTATIVE MAP PROJECT

N
W E
S

0 500 1,000 Feet

ALDEN ENVIRONMENTAL, INC

Appendix A
SUMMARY OF FIELD SURVEY CONDITIONS

Survey	Date	Biologist	Survey Times (start/stop)	Weather Conditions (start/stop)[1]
1	2/15/18	Greg Mason	1359-1617	70% clear, 73°°F, 0-10 mph/ 80% clear, 72°F, 0-10 mph
2	2/20/18	Tara Baxter	1100-1310	0%, 60°F, wind 7-9 mph/ 0%, 63°F, wind 9-11 mph
3	2/25/18	Tara Baxter	1200-1410	0%, 71°F, wind 7-9 mph/ 0%, 74°F, wind 5-7mph
4	3/6/18	Tara Baxter	1200-1425	0%, 74°F, wind 7-9 mph/ >5%, 76°F, wind 7-9 mph
5	3/12/18	Tara Baxter	1100-1315	65%, 72°F, wind 3-5 mph 30%, 74°F, wind 7-9 mph
6	3/20/18	Tara Baxter	1100-1300	15%, 75°F, wind 3-5 mph 20%, 80°F, wind 5-7 mph
7	3/27/18	Tara Baxter	0930-1130	0%, 66°F, wind 2-4 mph 0%, 75°F, wind 2-4 mph
8	4/3/18	Tara Baxter	1215-1415	0%, 70°F, wind 3-5 mph 0%, 72°F, wind 5-7 mph
9	4/11/18	Tara Baxter	0900-1100	10%, 72°F, wind 2-4 mph 0%, 76°F, wind 2-4 mph
10	4/18/18	Tara Baxter	1430-1630	0%, 75°F, wind 2-4 mph 0%, 74°F, wind 2-4 mph
11	4/24/18	Tara Baxter	1330-1530	20%, 73°F, wind 7-12 mph 10%, 75°F, wind 3-7 mph
12	5/4/18	Tara Baxter	1500-1700	0%, 91°F, wind 2-5 mph 0%, 84°F, wind 2-7 mph
13	5/8/18	Tara Baxter	0915-1115	40%, 63°F, wind 3-7 mph 10%, 74°F, wind 4-8 mph

[1]Temperature was taken on the ground in the shade. Percentages indicate cloud cover.

Appendix B
COPIES OF FIELD NOTES

2/15/18 COL-09 QCB #7

Start 1359

Wind 0-10, gusts up to 10

Sky 70% clear

Temp 23°C on ground

End 1617

Wind 0-10, gusts fewer

Sky 80% clear

Temp 27°C on ground

Red tail

Mo Do

hawk

Anna's

h finch

Rite in the Rain.

2/20/18 COL-09 QCB
#2

- 1100, 60°F, wind 7-9 mph, 0% cloud cover
- 1310, 63°F, wind 9-11 mph 0% cloud cover

Butterfly species

none

Other wildlife

EUST
RTHA
MODO
ANHU
ROPI
CAGN
WCSP
BTJR
WEML
WEKI
HOFI
CALT
cottontail
SAPH
CORA
NOMO

Flowering plants/Host plants

Rhu int.
Nic. gla.
Bra nig.

2/25/18 COL-09 QCB
survey #3

- start: 1200, 71°F, 0% cloud cover, wind 7-9 mph
- end: 1410, 74°F, 0% cloud wind 5-7 mph

Butterflies

none

Other Wildlife

EUST CORA
CAKI SSHA
ROPI CALT
HOFI Cottontail
WCSP

Flowering plants

Rhus int. Bra nig.
Nic gla. Sisymbrium sp.
Iso arb.

Rite in the Rain

3/6/18 COL-09/Alden
QGB survey #4

Start: 1200, 74°F,
0% cloud cover, wind 7-9 mph

end: 1425, 76°F, >50% cloud cover
wind 7-9 mph

Butterfly Species	Wildlife
Lady sp. 1	EUST SAPH
Bchr's MM 1	~~ANHU~~
	CAKI HOLA
	~~HOFI~~ cottontail
	MUDO WCSP
	AMKE CORA NoMO
	RTHA CALT
	NRWS

Flowering plants / Host plants

Sisymbrium sp. Pla ere*
Nic gla.
Acm gla Ams men.
Isocoma men.
Is. arb.
Wild cucumber

Rite in the

3/12/18 COL-09 QCB survey
Alden Env. #5

Start: 1100, 72°F, 65% cloud cover
wind 3-5 mph

end: 1315, 74°F, 30% cloud cover
wind 7-9 mph

Butterfly
Cabbage wht. CHSP
Sara's Longtip 1
Lady sp. 1

Wildlife
Species
CORA HOFI
BUSH EUST CAKI
HOLA MOOO
WREN
WEML CALT
KILL EUCD
NOMO
SOSP CAGN*

Flowering Plants/
Host Plants

mustard sp.
Ams wen
Acm gla
Gut cal

Nic gla
Iso arb

Hyp gla
Pla ere *

Rite in the R

3/20/18 COL-09 / Aldenev.

QCB survey #6

- Start: 1100, ground temp: 75°F
15% cloud cover, wind 3-5mph

- end: 1300, ground temp: 80°F
20% cloud cover, wind 5-7mph

mir lae. rib spe.

Butterfly Species

Lady sp. I
cabbage white III
Behr's metalmark I
w. tiger swallowtail I

Flowering Plants/Fest Plants

Bac Sal
Pla occ
clematis sp.
Brassica nigra
Ams men.
Sisymbrium sp.
Rhus int.
SD sunflower
Vic gla
Iso arb.
Enc cal.
Sambucus
Ero cic.
Gut cal.
popcorn flower

CAGN PROPI
NOHA

Wildlife

EUST
HOFI
CORA
BUSH
LEGO
cottontail
WEML HOLA
SSHA RTHA
ANHU SAPH
CALT SOSP
NOMO

Rain

3/27/18 COL-09/Alden Env.

QCB survey #7

- Start: 0930, 66°F, 0% cloud cover, wind 2-4 mph
- end: 1130, 75°F, 0% cloud cover, wind 2-4 mph

Butterfly species		Flowering plants
funereal duskywing	I	Brassica nig.
Behr's metal-mark	II	Sisymbrium sp.
Mauve blue	I	Ams men.
		Ero cic
		Nic gla
		Acm gla
		Dic cap
		So sunflower
		Iso arb
		Sambucus
		Mir lab
		Rib Spe
		Popcorn flower
		Pla ere *

No QCB observed

Rite in the Rain

4/3/18 COL-09 QCB survey #8
Allen Env.

- Start: 1215, 70°F, 0% cloud cover
  wind 3-5 mph
- end: 1415, 72°F, 0% cloud cover
  wind 5-7 mph

Butterfly Species	
Behr's MM	II
Sara's orangetip	IIII
W. tiger swallowtail	I
f. duskywing	III
perplexing gr. hairst	I

No QCB observed

Flowering Plants	Host Plants*
Pla ere	
Sol xan	
Clematis sp.	
Brassica nig.	
Dic cap	
Ban lac	
Cryptantha sp.	
Acm gla	
Ero cic	
Iso arb	
Gna cal	
Sisymbrium sp.	
Ams men.	
Esc cal	
Rib spe	
Sambucus	
Mir lab	

4/11/18 COL-09 QCB survey / Allen Env.

- **Start:** 0900, 72°F, 10% cloud cover
  wind 2-4 mph
- **end:** 1100, 76°F, 0% cloud cover
  wind 2-4 mph

Butterfly species		Nectar source / Host Plants
California ringlet	IIII	Brassica nig.
Behr's metalmark	II	Nic gla
W. tiger swallowtail	I	Acacia sp.
Sara's orangetip	I	Sonchus sp.
	W. pygmy blue	Erodium sp.
		Dic cap
		Acm gla
		Enc cal

Wildlife species

HOFI	Cottontail	Mer lae	Bah lac
WEMU	NRWS		Gna cal
SAPH	COYE	Iso arb	Sambucus
EUST	BLGR	Sol	Ams men.
RTHA	WREN	dou	Pla ere*
HOLA	WCSP		Sisymbrium
CORA	BUSH		Rib Spe
LEGO	BLPH		popcorn flower (Cryptantha)
NOMO			plagiobothrys
ANHU			Sol xan
SOSP			Chrysanthemum

4/18/18 COL-09 QCB survey

Alden Env.

- 1430, 75°F, 0% cloud cover, wind 2-4 mph
- 1630, 74°F, 0% cloud cover, wind 2-4 mph

Butterfly species		Plant sources / Host plants
		Pla erec
Behr's metalmark	III	Dic cap
		Ams men
Cabbage white	I	Brassica nig
		Sonchus sp.
w. tiger	II	Acm gla
swallowtail		Sal xalu
blue sp.	I	Chrysanthemum cryptantha/ plagiobothrys
		Rib spe
		Sambucus
		Ban lac
		Sisyrinchium
		Gna cal
		Eric cal
		Mir lac
		Erodium sp.

No QCB

Rite in the Rain

4/24/18 COL-09 QCB survey/
Alden Env.

- 1330, 73°F, 20% cloud cover, wind 7-12 mph
- 1530, 75°F, 10% cloud cover (high cirrus), wind 3-7 mph

Butterfly species

- pygmy blue
- N. tiger swallowtail

Nectaring Plants / Host plants

Enc cal
Chrysanthemum
Brassica nig.
Nic gla
Achi gla
Iso arb
Ams mien
Gna cal
Sambucus
Sonchus sp.
Brass buttons
fennel
Bah lac
Sol xan
Sol dou
Rhu int.
Cal mac
Sol dou

Wildlife obs.

YEWA BUSH
CAGN CORA
LEGO CALT
HOFI CEWR
TUVU BLPH
ANHU SOSP
EUST NOMO
HOLA RTHA
WEML BGGN
Coatail
CA kingsnake
PSFL
noise

5/4/18 COL-09 QCB/Alden Env.

- 1500, 91°F, 0% cloud cover, wind 2-5 mph
- 1700, 84°F, 0% cloud cover, wind 2-7 mph

Butterfly species	Nectar sources
Sulphur sp. 1	Brassica nig.
W. tiger swallowtail 1	Chrysanthemum
Painted lady 1	Nic gla
	Ach gla
	Ban lac
	Deinandra
	Eri fas
	Iso arb
	Sambucus
	Eri cor
	Cal mac
	Sisyrinchium

Rite in the Rain

5/8/18 COL -09 QGB survey
Alden Env.

- 0915, 63°F, 40% cloud cover, wind 3-7 mph
- 1115, 74°F, 10% cloud cover (high cirrus), wind 4-8 mph

Butterfly species

Painted lady II

Belrs Metalmark I

Nectar Sources

Brassica nig.
Chrysanthemum
Nic glu
En fas
Acm gla
En con
Bah lac
Sonchus sp.
Sambucus
Iso arb
Deinandra

Cal mac
Opu pro

Appendix C
LISTS OF BUTTERFLIES OBSERVED DURING EACH SURVEY

Survey Number	Date	Species	Number Observed
1	**February 15, 2018**	None observed	
2	**February 20, 2018**	None observed	
3	**February 25, 2018**	None observed	
4	**March 6, 2018**	Lady Sp. (*Vanessa sp*)	1
		Behr's metalmark (*Apodemia virgulti*)	1
5	**March 12, 2018**	Cabbage white (*Pieris rapae)*	2
		Sara's Orangetip (*Anthocharis sara*)	1
		Lady Sp. (*Vanessa sp*)	1
6	**March 20, 2018**	Cabbage white (*Pieris rapae)*	3
		Lady Sp. (*Vanessa sp*)	1
		Behr's metalmark (*Apodemia virgulti*)	1
		Western Tiger Swallowtail (*Papilio rutulus*)	1
7	**March 27, 2018**	Funereal duskywing (*Erynnis funeralis*)	1
		Behr's metalmark (*Apodemia virgulti*)	2
		Marine Blue (*Leptotes marina*)	1
8	**April 3, 2018**	Behr's metalmark (*Apodemia virgulti*)	2
		Sara's Orangetip (*Anthocharis sara*)	4
		Western Tiger Swallowtail (*Papilio rutulus*)	1
		Funereal duskywing (*Erynnis funeralis*)	3
		Perplexing Hairstreak (*Callophrys perplexa*)	1
9	**April 11, 2018**	California ringlet (*Coenonympha tullia California*)	4
		Behr's metalmark (*Apodemia virgulti*)	2
		Western Tiger Swallowtail (*Papilio rutulus*)	1
		Sara's Orangetip (*Anthocharis sara*)	1
		Western pygmy blue (*Brephidium exilis*)	1
10	**April 18, 2018**	Behr's metalmark (*Apodemia virgulti*)	3
		Cabbage white (*Pieris rapae)*	1
		Western Tiger Swallowtail (*Papilio rutulus*)	2
		Blue sp. (*Polyommatus Icarus*)	1
11	**April 24, 2018**	Western pygmy blue (*Brephidium exilis*)	1
		Western Tiger Swallowtail (*Papilio rutulus*)	1
12	**May 4, 2018**	Sulpher Sp. (Colias eurytheme)	1
		Western Tiger Swallowtail (*Papilio rutulus*)	1
		Painted Lady (*Vanessa cardui*)	1
13	**May 8, 2018**	Painted Lady (*Vanessa cardui*)	2
		Behr's metalmark (*Apodemia virgulti*)	1

Appendix D

Burrowing Owl Survey Report

ALDEN ENVIRONMENTAL, INC
3245 University Ave, #1188 | San Diego, CA 92104 | **Phone/Fax:** 619.284.3815

July 13, 2018

Ms. Rita Mahoney
Colrich
444 West Beech Street, Suite 300
San Diego, CA 92101

Subject: Burrowing Owl Survey Report for the Lumina Tentative Map Project Site

Dear Ms. Butler:

This letter presents the results of the 2018 nesting season survey for the burrowing owl (*Athene cunicularia*) conducted on the Lumina Tentative Map Project site.

LOCATION AND SITE DESCRIPTION

The approximately 93-acre project site is located in the City of San Diego (City), north of Siempre Viva Road and west of Cactus Road in the Otay Mesa community within the Central Village Specific Plan area (Figures 1 and 2). Off-site roadway improvements to Airway Road and Cactus Road are also part of the project.

The project site is primarily flat and irregularly shaped and consists largely of agricultural land. Sloping topography is present where canyons occur in the northwest and southwest portions of the site. These canyons support the only native or naturalized vegetation on the site. Elevations on site range from approximately 415 feet above mean sea level (amsl) in the northern canyon and 515 feet amsl along Cactus Road. The soil types on site consist of Stockpen gravelly clay loam (two to five percent slopes) and Olivenhain cobbly loam (two to nine and 30 to 50 percent slopes; Bowman 1973).

Previous uses of the site are agricultural. The site is bounded to the west by agricultural and undeveloped land; to the north by undeveloped land and an auto transport facility; to the east by Cactus Road, agricultural land, an auto auction facility, and old horse stables; and to the south by undeveloped land and several commercial businesses.
A small portion of the City's MSCP Multi-habitat Planning Area occurs at the northwest corner of the site within the northern canyon.

METHODS

Biologist Tara Baxter conducted the burrowing owl survey. The survey consisted of four site visits on separate days (Table 1) according to the survey methods in the Staff Report on Burrowing Owl Mitigation (California Department of Fish and Game [CDFG] 2012), which supersedes the survey, avoidance, minimization and mitigation recommendations in the 1995 Staff Report (CDFG 1995), and took into account the Burrowing Owl Survey Protocol and Mitigation Guidelines (California Burrowing Owl Consortium 1993).

Burrowing owl habitat on site, in the off-site roadway improvement areas along Airway Road and Cactus Road (where potential burrowing owl habitat was present), and in a 500-foot buffer surrounding each of these areas, as appropriate, was examined by walking transects. The areas were surveyed for burrowing owls and potential burrows or perches that could be used by the owl. Burrowing owls are known to occupy California ground squirrel (*Otospermophilus beecheyi*) burrows; therefore, particular attention was paid to any areas along fence lines, or other locations where squirrel activity has been observed in the past, was observed presently, or was likely to occur. Dirt piles, drainages, and culverts were also carefully examined as these sites can often provide cavities that can support the species. The determination of owl presence was made by direct owl observation or by owl signs such as, but not necessarily limited to, excavated soil, whitewash (excrement), castings (pellets), and/or feathers.

Table 1
Burrowing Owl Survey Information

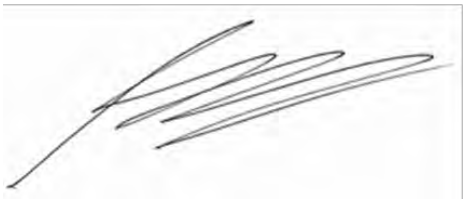
Survey Number	Date	Biologist	Time	Weather Conditions (start/stop)
1	2/25/18	Tara Baxter	0600-0830	0% cloud cover, 47°F, wind 4-6 mph/ 0%, 56°F, wind 5-7 mph
2	5/24/18	Tara Baxter	0530-0730	100%, 57°F, wind 1-3 mph 100%, 62°F, wind 1-3 mph
3	6/19/18	Tara Baxter	0530-0730	100%, 58°F, wind 1-2 mph 100%, 66°F, wind 1-4 mph
4	7/12/18	Tara Baxter	0600-0800	100%, 72°F, wind 2-4 mph 10%, 79°F, wind 5-7 mph

SURVEY RESULTS

No burrowing owls, evidence of owl presence (casts, feathers, etc.), or potential owl burrows were observed within the proposed project's on-site and off-site impact footprints or the 500-foot buffer. Based on the lack of suitable burrows and evidence of occupation, the project site and off-site impact areas are not considered to be occupied by the burrowing owl.

Please contact me if you have any questions.

Sincerely,



Greg Mason
Senior Biologist

Enclosures:

Figure 1	Regional Location Map
Figure 2	Project Location Map
Figure 3	Burrowing Owl Survey Results

References:

Bowman, R. 1973. Soil Survey of the San Diego Area. USDA in cooperation with USDI, UC Agricultural Experiment Station, Bureau of Indian Affairs, Department of the Navy, and the U.S. Marine Corps.

California Department of Fish and Game (CDFG). 2012. Staff Report on Burrowing Owl Mitigation. March 17.

1995. Environmental Services Division. Staff Report on Burrowing Owl Mitigation. October 17. 8pp. plus attachments.

California Burrowing Owl Consortium. 1993. Burrowing Owl Survey Protocol and Mitigation Guidelines. April.

Figure 1

Regional Location

LUMINA TENTATIVE MAP PROJECT

N
W E
S

0 2 4 Miles

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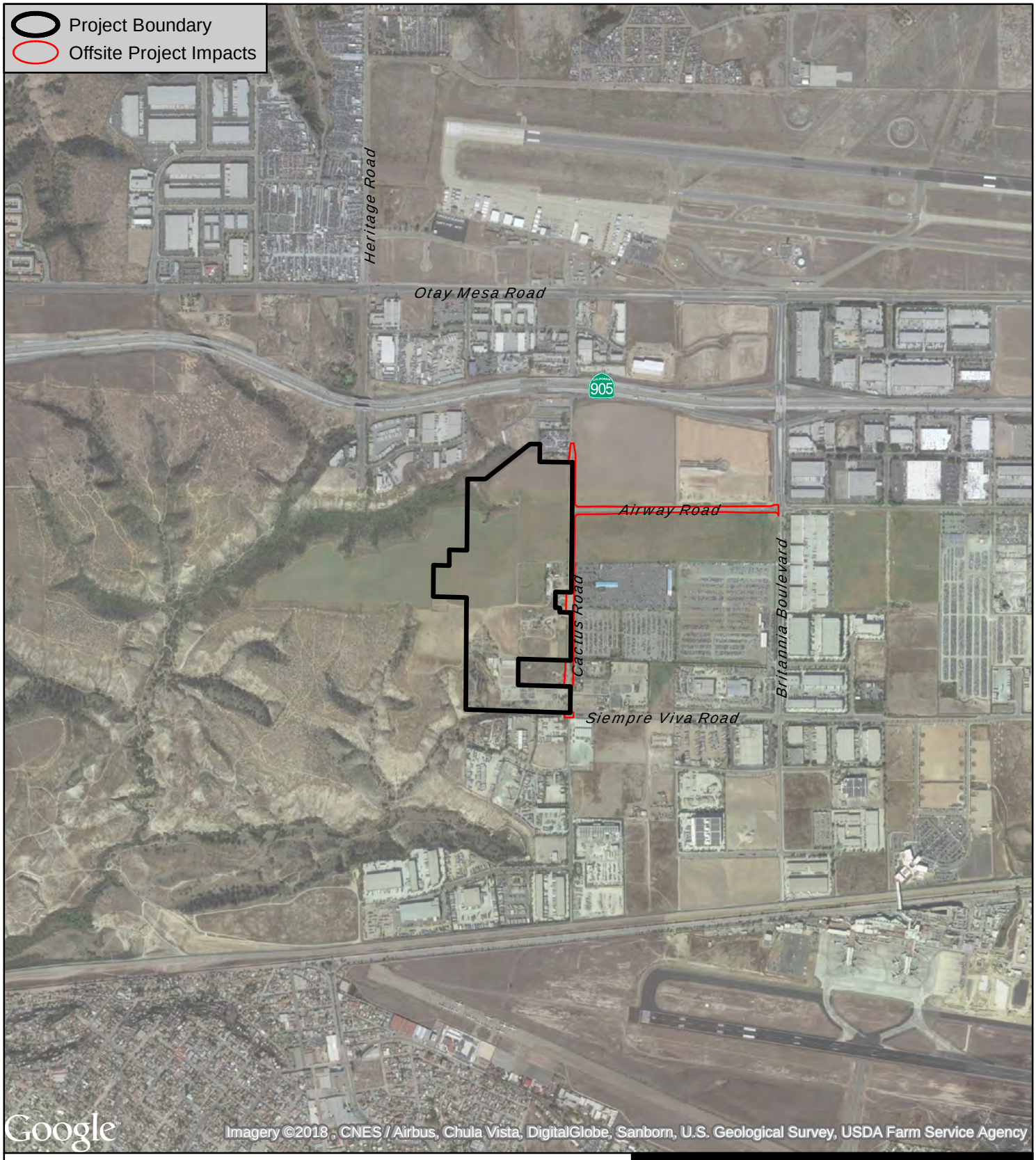


Figure 2

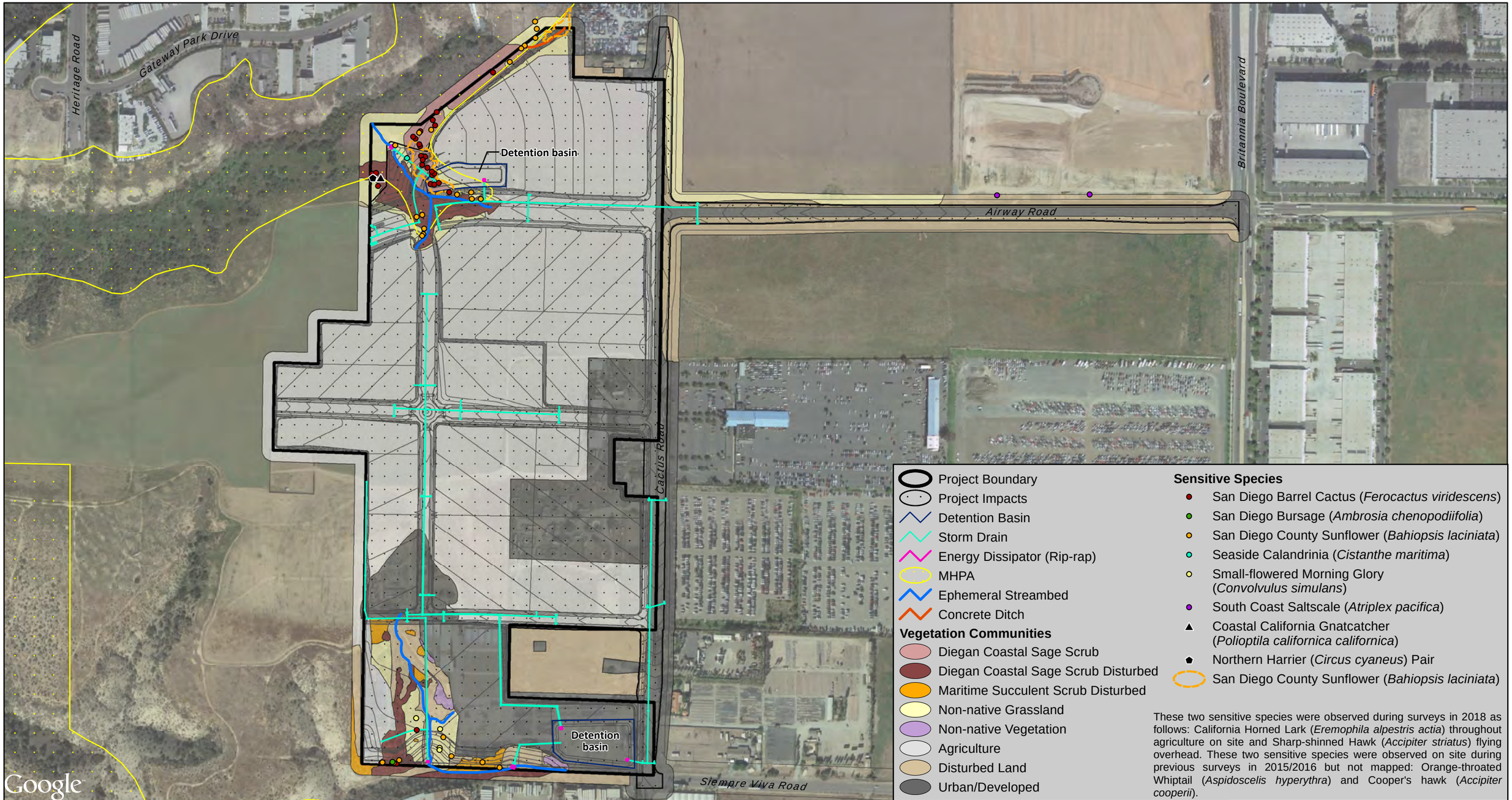
Project Location

LUMINA TENTATIVE MAP PROJECT

N
W E
S

0 1,000 2,000 Feet

ALDEN ENVIRONMENTAL, INC



N
W E
S

0 210 420 Feet

ALDEN ENVIRONMENTAL, INC

Figure 3

Burrowing Owl Survey Results

LUMINA TENTATIVE MAP PROJECT

Appendix E

Jurisdictional Delineation Report

Jurisdictional Delineation Report for the Lumina Tentative Map Project

November 30, 2018

Prepared for:

ColRich Communities
444 West Beech Street, Suite 300
San Diego, CA 92101
(858) 490-2300

Prepared by:

Alden Environmental, Inc.
3245 University Avenue, #1188
San Diego, CA 92104

ALDEN
ENVIRONMENTAL, INC

Jurisdictional Delineation Report
for the
Lumina Tentative Map Project

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Jurisdictional Delineation Report
for the
Lumina Tentative Map Project

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1.0 INTRODUCTION

This jurisdictional delineation report has been prepared for the Lumina Tentative Map Project (project) and is intended to provide the U.S. Army Corps of Engineers (Corps), Regional Water Quality Control Board (RWQCB), California Department of Fish and Wildlife (CDFW), and the City of San Diego (City) with information necessary to assess impacts to aquatic resources on site.

1.1 Project Location

The approximately 93-acre project site is located in the City, north of Siempre Viva Road and west of Cactus Road in the Otay Mesa community within the Central Village Specific Plan (CVSP) area. It is in Section 33, Township 18 South, Range 1 W on the Otay Mesa 7.5-minute series U.S. Geological Survey quadrangle (Figures 1 and 2).

1.2 Project Description

The project would establish commercial and residential mixed uses, multi-family residential uses, public school facilities, recreation, and open space. The project also includes brush management, two bio-filtration basins, and CVSP roadways. The proposed land uses are consistent with the land use designations applied to the site by the CVSP.

Proposed slope areas on site would be owned and maintained by a Homeowners Association (HOA), and portions of the slope areas would be utilized as brush management zones. The proposed slope areas would not exceed a 2:1 ratio (horizontal:vertical). The proposed brush management zones within the slope areas are located between the residential development and open space and serve as a transition between the two uses to lessen the impact of residential uses on the adjacent off-site open space areas.

Both bio-filtration basins would be HOA owned and maintained. The bio-filtration basin in the southern portion of the site would include two stormwater pipes that would direct flows to drain into the detention basin, while one stormwater drainage pipe would direct flows from the detention basin to an outlet point within area south of the detention basin designated for open space uses. The proposed bio-filtration basin in the northern portion of the site would include one stormwater pipe to direct flows to drain into the detention basin and one stormwater pipe to direct flows from the detention basin to an outlet point within area designated for open space uses.

The project proposes roadway construction and improvements on and off of the project site as follows: improvements to Airway Road off site and an extension of existing Airway Road on site; improvements to existing Cactus Road off site; on-site construction and associated improvements of a Village Entry Street (Village Way); on-site construction of a segment of Central Main Street; and on-site construction of a segment of C Street. The extension of Airway Road on site would occur within the City's Multiple Species Conservation Program (MSCP) preserve, the Multi-habitat Planning Area (MHPA), as planned by the Otay Mesa Community Plan Update and evaluated in the Final Environmental Impact Report (FEIR; City 2014). Airway Road is an essential public facility and is, therefore, "considered conditionally compatible with the biological objectives of the MSCP and allowed within the City's MHPA" (City 1997).

2.0 ENVIRONMENTAL SETTING

2.1 Topography

The project site is primarily flat and irregularly shaped and consists largely of agricultural land. Sloping topography is present where canyons occur in the northwest and southwest portions of the site. Elevations on site range from approximately 415 feet above mean sea level (amsl) in the northern canyon and 515 feet amsl along Cactus Road (Figure 2). The soil types on site consist of Stockpen gravelly clay loam (zero to two and two to five percent slopes) and Olivenhain cobbly loam (30 to 50 percent slopes; U.S. Department of Agriculture, Natural Resources Conservation Service [NRCS]; Figure 3). There are three main drainage features on site; there are no aquatic resources in the off-site road improvement area.

2.2 Hydrology

The site is located within the Tijuana River-Frontal Pacific Ocean (NHD 12-digit HUC) area of the larger Cottonwood-Tijuana Watershed (NHD 8-digit HUC; Figure 4).

2.3 Land Uses

The site is not presently under any active use. Previous uses of the site are agricultural. The site is bounded to the west by agricultural and undeveloped land; to the north by undeveloped land and an auto transport facility; to the east by Cactus Road, agricultural land, an auto auction facility, and old horse stables; and to the south by undeveloped land and several commercial businesses.

3.0 METHODS

Initial mapping of potential jurisdictional features was conducted in November of 2017. A follow up, focused delineation of jurisdictional features on the project site was performed by Alden on November 28, 2018. Eight points were sampled as part of the delineation; the sample forms are provided in Appendix A. The delineation was conducted in accordance with the *Wetlands Delineation Manual* (1987 Manual; Environmental Laboratory 1987) and *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Supplement* (Regional Supplement; Corps 2008a). The Ordinary High Water Mark (OHWM) also was determined in accordance with *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (Corps 2008b). Photos were taken at each drainage feature as well as at each sampling point (Appendix B).

City Wetlands, specifically, are defined by the City Municipal Code (Chapter 11, Article 3, Division 1).

Review of relevant literature and materials aided in preliminary identification of areas that may be jurisdictional including aerial photographs, USGS topographic maps, National Wetland Inventory data, and NRCS soil survey maps (Figures 3 and 4).

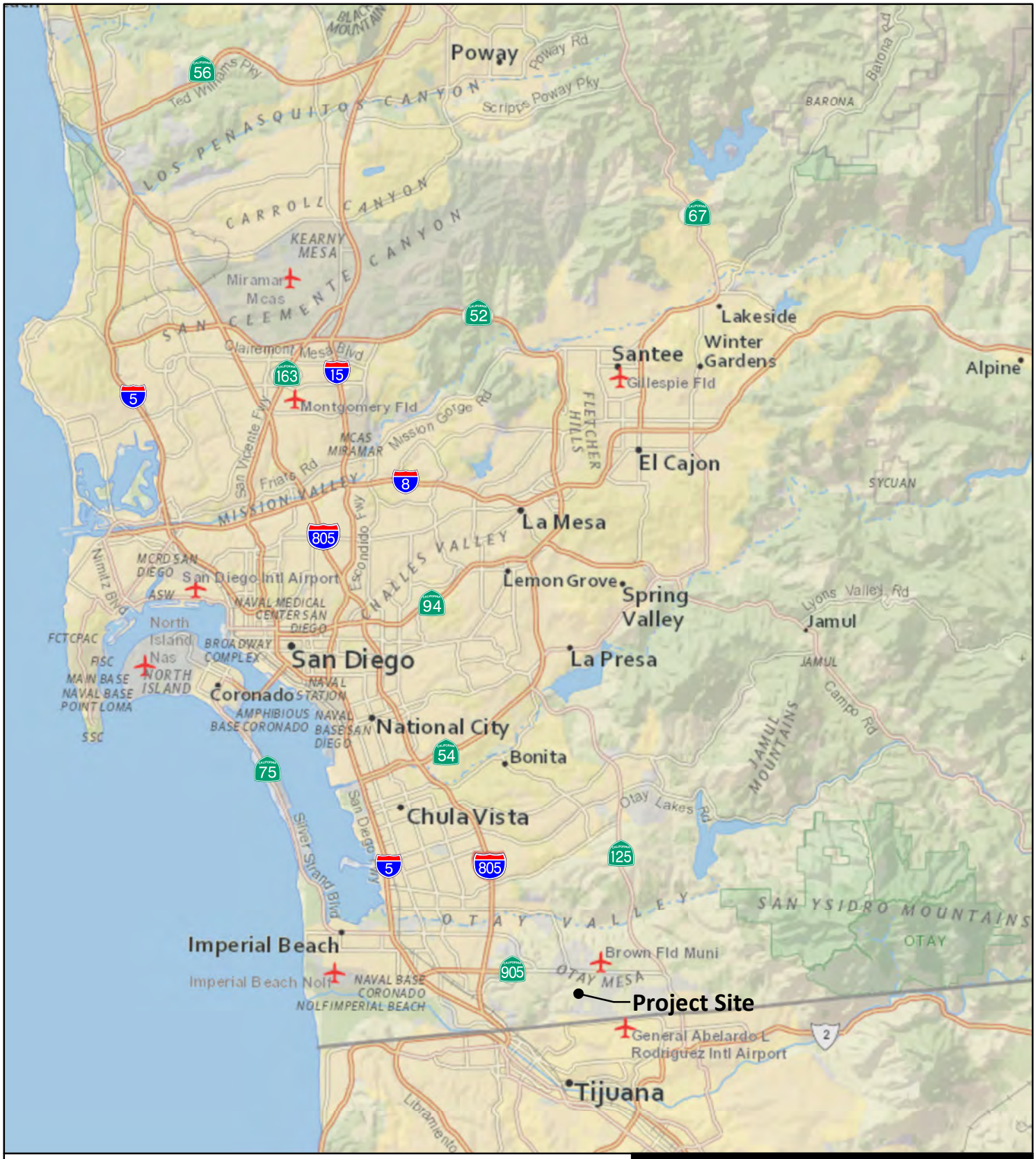


Figure 1

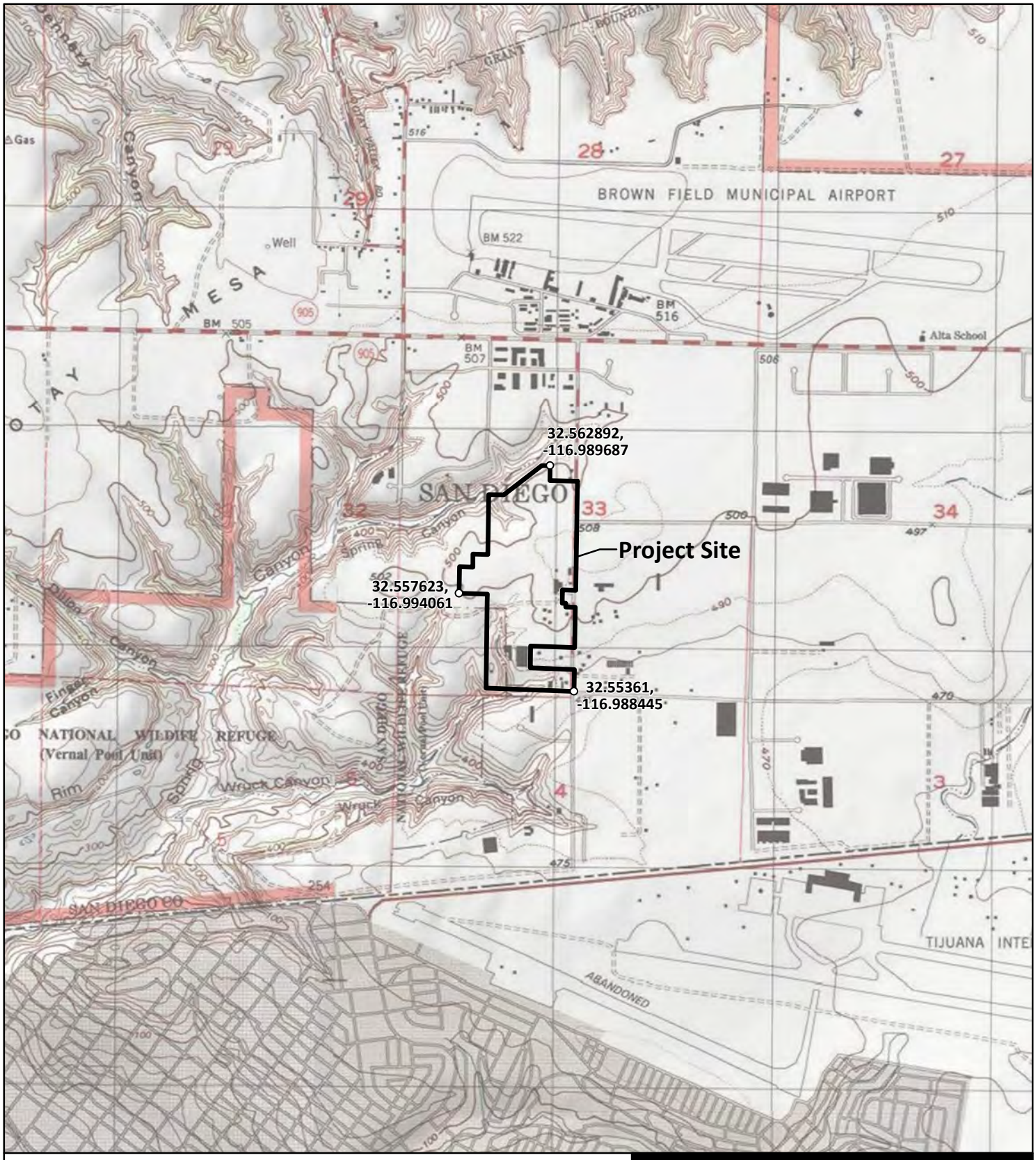
Regional Location

LUMINA TENTATIVE MAP PROJECT
JURISDICTIONAL DELINEATION REPORT

N
W E
S

0 2 4 Miles

ALDEN ENVIRONMENTAL, INC



USGS 7.5' Quadrangles: Otay Mesa, Imperial Beach
Township 18S, Range 01E, Section 30

Figure 2

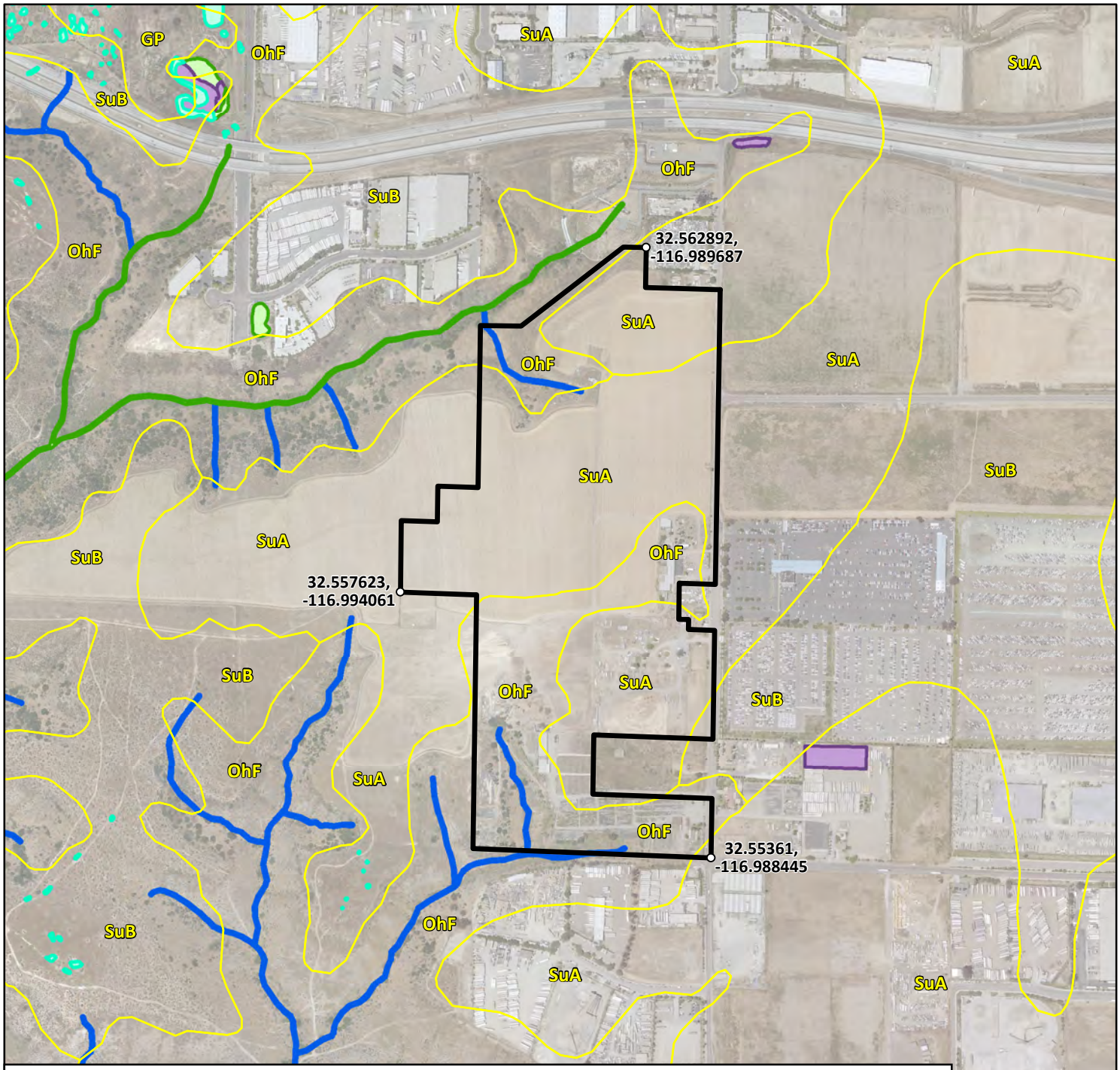
Project Location

LUMINA TENTATIVE MAP PROJECT
JURISDICTIONAL DELINEATION REPORT

N
W E
S

0 1,000 2,000 Feet

ALDEN ENVIRONMENTAL, INC



Project Boundary

National Wetlands Inventory

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine

NRCS Soils

GP - Gravel pits

OhF - Olivenhain cobbly loam, 30 to 50 percent slopes

SuA - Stockpen gravelly clay loam, 0 to 2 percent slopes

SuB - Stockpen gravelly clay loam, 2 to 5 percent slopes

Source: USDA NRCS Soils;
USFWS National Wetlands Inventory

N
W E
S

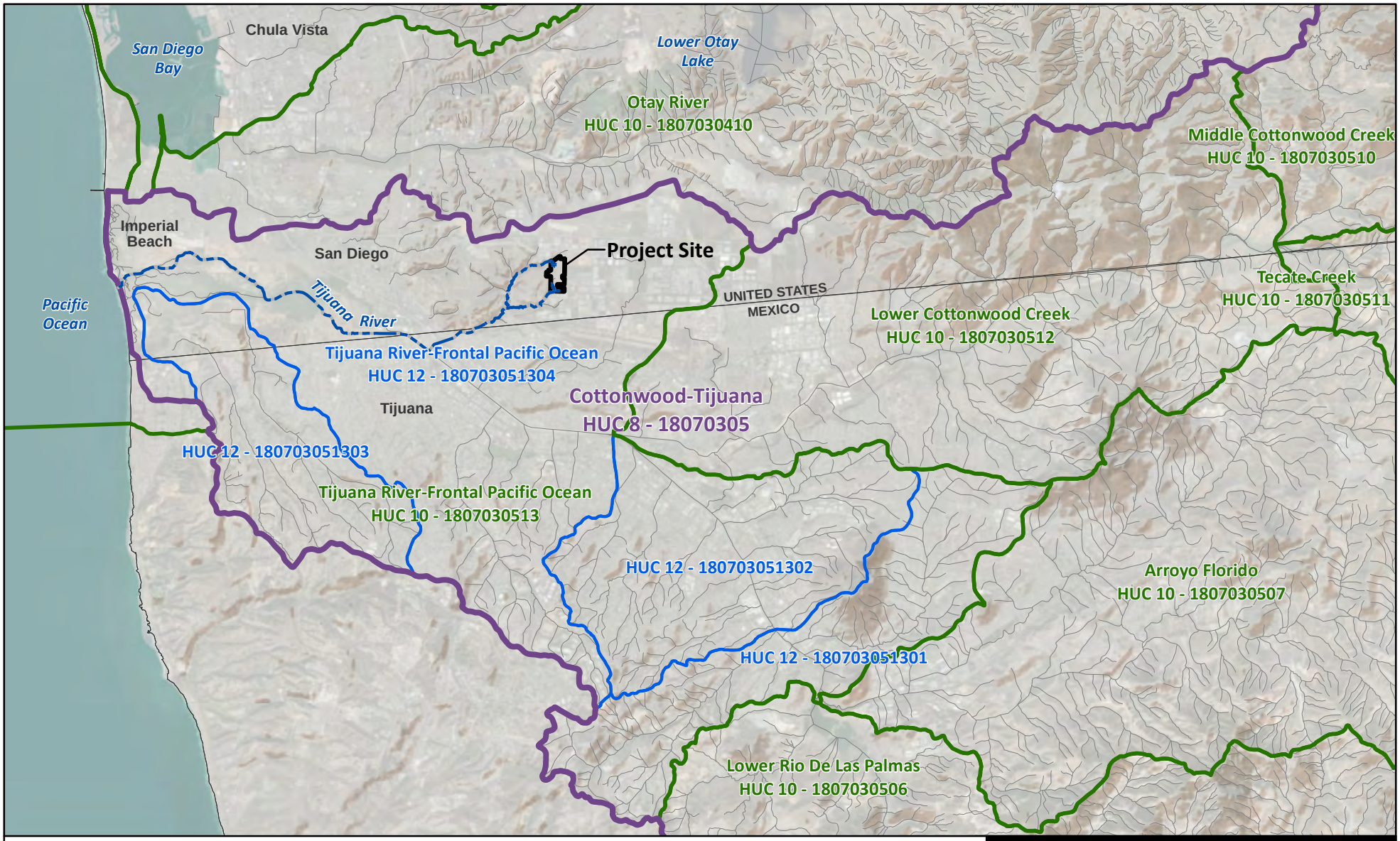
0 400 800 Feet

ALDEN ENVIRONMENTAL, INC

Figure 3

NRCS Soil Survey and National Wetland Inventory Data

LUMINA TENTATIVE MAP PROJECT
JURISDICTIONAL DELINEATION REPORT



NHD Watershed 8-digit HUC (Cottonwood-Tijuana)
NHD Watershed 10-digit HUC
NHD Watershed 12-digit HUC
Flow Path

N
W E
S

0 1.25 2.5 Miles

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Figure 4

Tijuana River Watershed

LUMINA TENTATIVE MAP PROJECT
JURISDICTIONAL DELINEATION REPORT

3.1 WATERS OF THE U.S.

3.1.1 Non-wetland Waters of the U.S.

In the absence of wetlands, the limits of Corps and RWQCB jurisdiction in non-tidal waters typically extend to the OHWM. An OHWM can be determined by, but not limited to, the observation of benches, breaks in bank slope, particle size distribution, sediment deposits, drift, litter, and/or changes in plant communities.

3.1.2 Wetland Waters of the U.S.

The Regional Supplement presents wetland indicators, delineation guidance, and other information that is specific to the Arid West Region. According to the 1987 Manual and Regional Supplement, identification of wetlands is based on a three-criteria approach involving the predominance or prevalence of hydrophytic vegetation, and indicators of hydric soil and wetland hydrology as follows:

Hydrophytic vegetation is based on designations provided in *The National Wetland Plant List: 2016 Wetland Ratings* (Lichvar et al. 2016). OBL, FACW, and FAC are considered hydrophytic.

- OBL - Obligate (always found in wetlands)
- FACW - Facultative Wetland (usually found in wetlands)
- FAC - Facultative (found in wetlands as often as found in uplands)
- FACU - Facultative Upland (usually found in uplands)
- UPL - Upland (always found in uplands)

Hydric soils are identified by examining soil profile characteristics using *Munsell Soil Color Charts* (Munsell Color 2009). Hydric soils are those permanently or seasonally saturated by water resulting in anaerobic conditions. Hydric soils mapped by the NRCS, which are used for reference only, are listed on the *National Hydric Soils List* (NRCS 2015).

Wetland hydrology is based on the presence of at least one primary or two secondary indicators, as provided in the Regional Supplement.

To be considered a wetland, an area must exhibit at least minimal characteristics within these three criteria. Where wetlands are suspected (i.e., primarily areas where wetland vegetation is evident and evidence of current or past wetland hydrology exists), soil samples are examined by excavating pits. When conditions are consistent, and wetlands are determined present, areas with similar vegetation and hydrologic consistency are extrapolated—often tied to topography. Where there are changes in vegetation and/or hydrology, additional soil samples are examined to identify the boundaries between wetland and upland.

3.2 WATERS OF THE STATE

Aquatic/hydrological features lacking a nexus to (i.e., isolated from) adjacent or downstream waters are potentially considered Waters of the State. Currently, for this region (San Diego Regional Board), Regional Board jurisdiction coincides with Corps jurisdiction by defining an OHWM and utilizing the three criteria approach for wetlands.

3.3 STREAMBED

Streambeds within CDFW jurisdiction are delineated based on the definition of a streambed as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supporting fish or other aquatic life. This includes watercourses having a surface or subsurface flow that supports riparian vegetation." CDFW jurisdictional limits for streambeds are mapped to the top of the active bank. Vegetated CDFW jurisdictional riparian habitats are mapped to the limits of the riparian vegetation canopy.

3.4 CITY WETLANDS

City Wetlands, specifically, are defined by the City Municipal Code (Chapter 11, Article 3, Division 1) as areas that are characterized by any of the following summarized conditions.

1. All areas persistently or periodically containing naturally occurring wetland vegetation communities;

2. Areas that have hydric soils or wetland hydrology and lack naturally occurring wetland vegetation communities; and/or

3. Areas lacking wetland vegetation communities, hydric soils, and wetland hydrology due to non-permitted filling of previously existing wetlands.

The definition of City Wetlands, however, is intended to differentiate uplands (terrestrial areas) from wetlands and, furthermore, to differentiate naturally occurring wetland areas from those created by human activities. Except for areas created for the purposes of wetland habitat or resulting from human actions to create open waters or from the alteration of natural stream courses, it is not the intent of the City to regulate artificially created wetlands in historically non-wetland areas unless they have been delineated as wetlands by the Corps and/or CDFW.

4.0 RESULTS

4.1 HYDROLOGY

The flowpath of surface drainage on site travels through the Tijuana River-Frontal Pacific Ocean Watershed through Spring and Wruck canyons that flow into the Tijuana River and then, ultimately, into the Pacific Ocean (Figure 4). A NRCS Climate Analysis for Wetlands Tables (WETS) report was generated for the site using the nearby Brown Field station. The WETS report is included as Appendix C. Surface water within the project site consists primarily of intermittent runoff from storm events, and average annual rainfall totals approximately 8.6 inches with the majority of rain falling from December through February.

4.2 SOILS

The soil types on site are mapped as Stockpen gravelly clay loam (zero to two and two to five percent slopes) and Olivenhain cobbly loam (30 to 50 percent slopes; Figure 3). Alden reviewed the *National Hydric Soils List* (NRCS 2015) to identify soils in the study area that are considered hydric. According to the soils list, Stockpen gravelly clay loam (zero to two and two to five percent slopes) are considered hydric. Olivenhain cobbly loam (30 to 50 percent slopes) is not hydric.

The site has been subject to agricultural uses for decades and much of the canyon slopes and bottom consist of deep unconsolidated fill, trash, and debris. In addition, this area is within the approved Soils Management Plan (approved by County of San Diego on May 23, 2017) area. This plan directs management of organochlorine pesticide (OCP) impacted soils onsite.

4.3 AQUATIC RESOURCES

Aquatic resources identified on site include three ephemeral streambeds associated with the northwestern canyon in the MHPA on site (a tributary to Spring Canyon) and the southern and southwestern canyons on site (that are tributary to Wruck Canyon). A portion of a concrete lined ditch also occurs in the northern portion of the site.

According to the National Wetland Inventory, the three ephemeral streambeds on site are Riverine (Figure 3). Riverine systems usually contain flowing water and are generally bordered by uplands to the edges of the channels and by wetlands downstream where they drain into a stationary waterbody. The streambeds, in this case, meet the definition of a Riverine Intermittent Subsystem in which water flows only part of the year and forms either isolated pools or dries up completely for the rest of the year.

4.4 SAMPLE POINTS

Data were collected from eight sample points on the project site (Figures 5 and 6). The results for each point are presented below and in (Appendix A).

Sample Point 1

This sample point was located at the northern end of Drainage A in Tributary A_3; Figures 5 and 6). Sample Point 1 is vegetated with UPL and FACU species (Table 1), and channel widths along Tributary A_3 range from one foot to two feet. This area did not meet the hydrophytic vegetation criterion; therefore, it is not a jurisdictional wetland. The drainage at this location would be considered a non-wetland feature, jurisdictional to the Corps and CDFW.

Table 1 Plant Species at Sample Points									
Species	**Status**	**Sample Point**							
		1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Artemisia californica	UPL	✓		✓	✓				✓
Marrubium vulgare[1]	FACU	✓				✓			
Brassica nigra[1]	FACU	✓	✓	✓	✓	✓	✓	✓	✓
Centaurea melitensis[1]	FACU	✓			✓			✓	✓
Salsola australis[1]	FACU	✓	✓	✓		✓	✓	✓	
Bromus madritensis ssp. *rubens*[1]	UPL	✓	✓	✓					
Atriplex semibaccata[1]	FAC		✓						
Foeniculum vulgare[1]	FACU			✓	✓				
Xanthium strumarium	FAC					✓	✓		
Glebionis coronaria[1]	FACU							✓	✓
Salvia mellifera	UPL								✓
Nicotiana glauca[1]	FACU						✓		✓
Dittrichia graveolens[1]	FACU								✓

[1]Non-native species

Sample Point 2

This sample point was located at the central portion of Tributary A_3 of Drainage A (Figures 5 and 6). Sample Point 2 is vegetated with UPL, FACU, and FAC species (Table 1), and channel widths along Tributary A_3 range from one foot to two feet. This area did not meet the hydrophytic vegetation criterion; therefore, it is not a jurisdictional wetland. The drainage at this location would be considered a non-wetland feature, jurisdictional to the Corps and CDFW.

Sample Point 3

This sample point was located at the convergence of Tributaries A_1, A_2, and A_3 of Drainage A (Figures 5 and 6). Sample Point 3 is vegetated with UPL and FACU species (Table 1), and channel widths along Tributaries A_1, A_2, and A_3 range from one foot to two feet. This area did not meet the hydrophytic vegetation criterion; therefore, it is not a jurisdictional wetland. The drainage at this location would be considered a non-wetland feature, jurisdictional to the Corps and CDFW.

Sample Point 4

This sample point was located at the uppermost end of Tributary A_1 of Drainage A (Figures 5 and 6). Sample Point 4 is vegetated with UPL, FACU, and FAC species (Table 1), and channel widths of Tributary A_1 range from one foot to two feet. This area did not meet the hydrophytic vegetation criterion; therefore, it is not a jurisdictional wetland. The drainage at this location would be considered a non-wetland feature, jurisdictional to the Corps and CDFW.

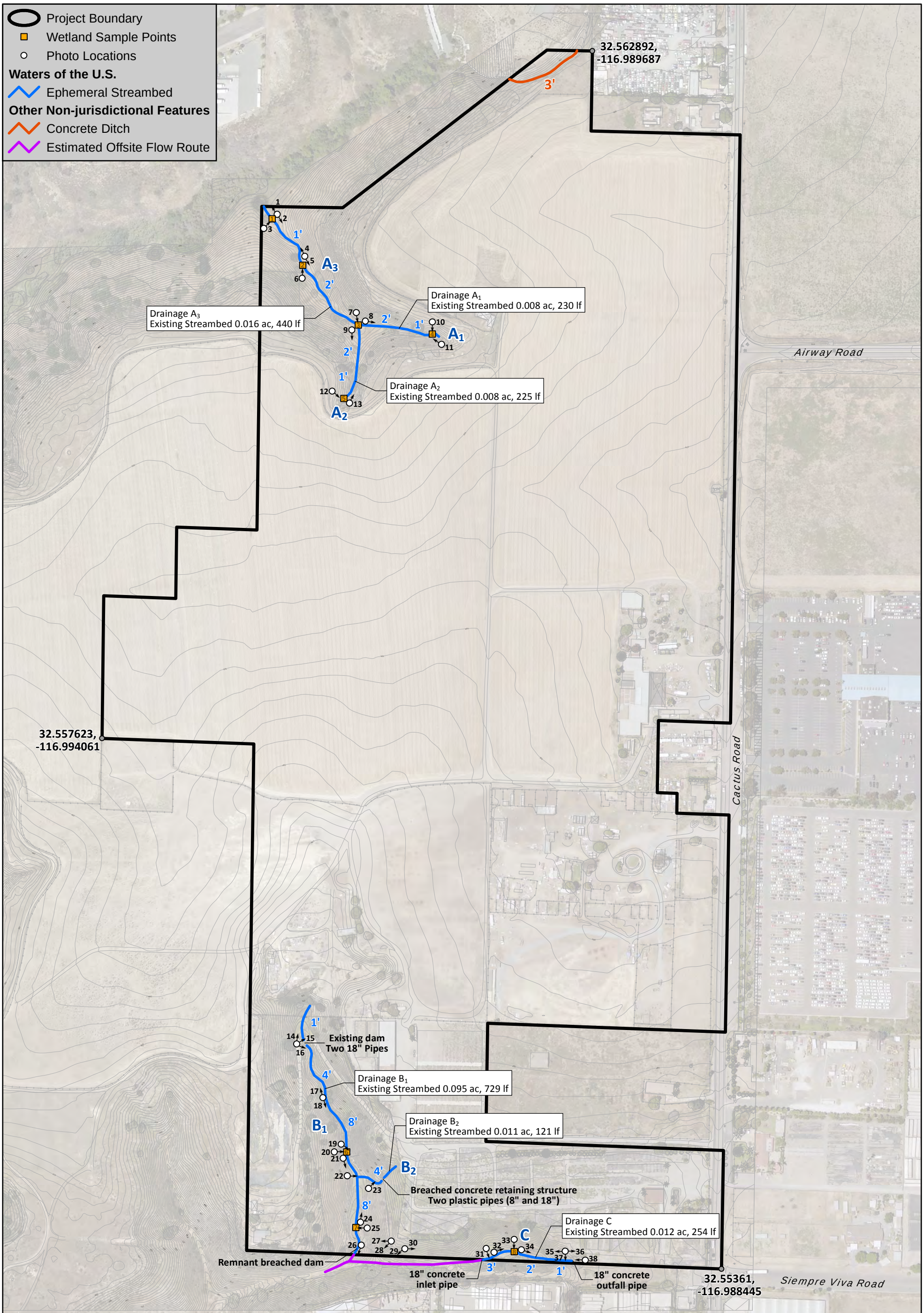

Figure 5

Waters of the U.S.

LUMINA TENTATIVE MAP PROJECT
JURISDICTIONAL DELINEATION REPORT

N W E S

0 125 250 Feet

ALDEN ENVIRONMENTAL, INC

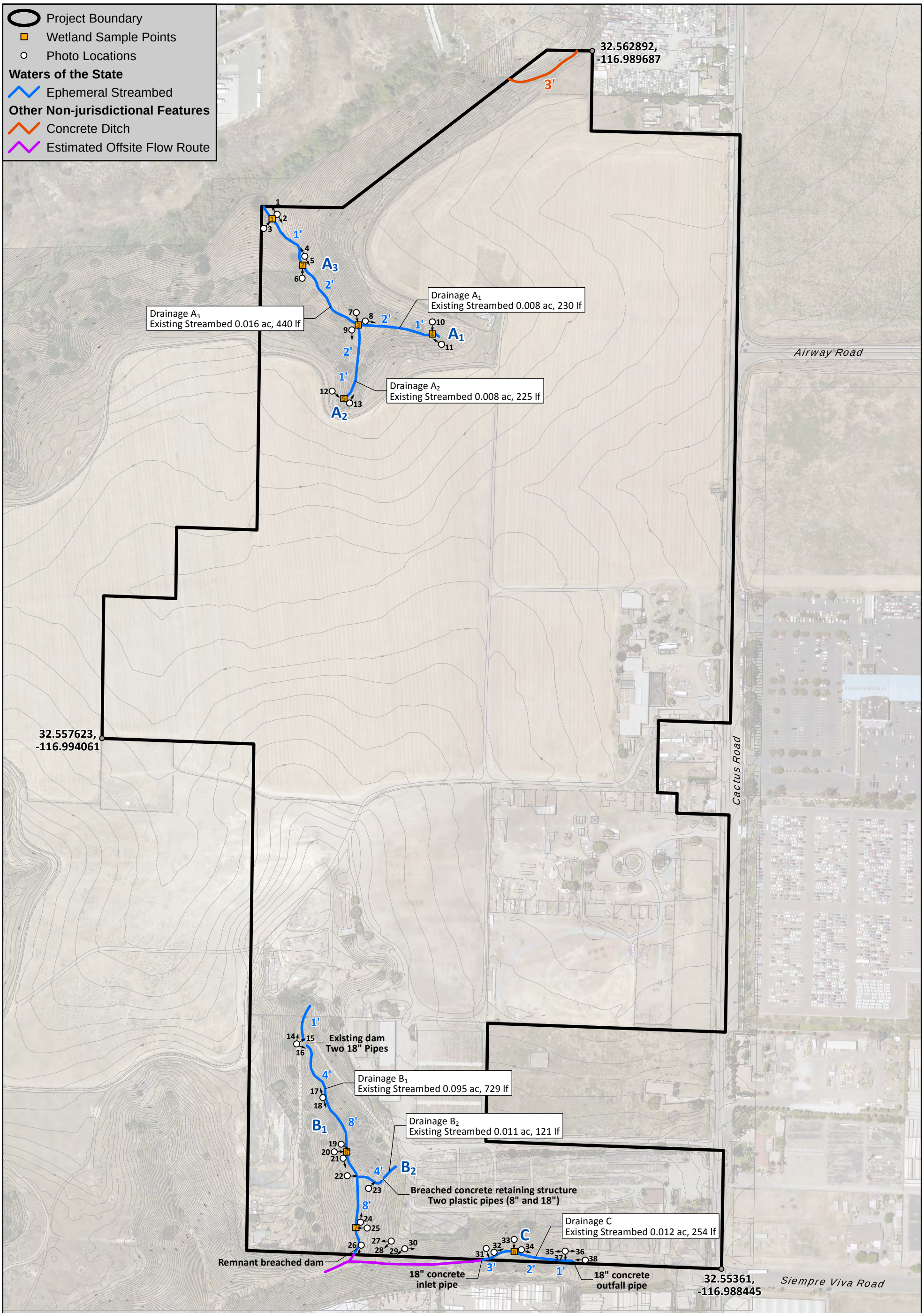

Figure 6

Waters of the State

LUMINA TENTATIVE MAP PROJECT
JURISDICTIONAL DELINEATION REPORT

N W E S

0 125 250 Feet

ALDEN ENVIRONMENTAL, INC

Sample Point 5

This sample point was located at the uppermost end of Tributary A_2 of Drainage A (Figures 5 and 6). Sample Point 5 is vegetated with FACU and FAC species (Table 1), and channel widths of Tributary A_2 range from one foot to two feet. This area did not meet the hydrophytic vegetation criterion; therefore, it is not a jurisdictional wetland. The drainage at this location would be considered a non-wetland feature, jurisdictional to the Corps and CDFW.

Sample Point 6

This sample point was located in the central portion of Drainage B (Figures 5 and 6). Sample Point 6 is vegetated with FACU and FAC species (Table 1), and channel widths range from one foot to eight feet. An existing dam with two 18-inch pipes is present at the northern end of the drainage. Along an unlabeled, small tributary to Drainage B, there is a breached concrete retaining structure that includes two plastic pipes—one eight inches and one 18 inches in diameter. Lastly, at the southern end of Drainage B on site, there is a remnant breached dam. Sample Point 6 did not meet the hydrophytic vegetation criterion; therefore, it does not represent a jurisdictional wetland. The drainage at this location would be considered a non-wetland feature, jurisdictional to the Corps and CDFW.

Sample Point 7

This sample point was located in the southern portion of Drainage B (Figures 5 and 6). Sample Point 7 is vegetated with FACU species (Table 1). Additional information about Drainage B was provided above under Sample Point 6. Sample Point 7 did not meet the hydrophytic vegetation criterion; therefore, it does not represent a jurisdictional wetland. The drainage at this location would be considered a non-wetland feature, jurisdictional to the Corps and CDFW.

Sample Point 8

This sample point was located along an on-site portion of Drainage C (Figures 5 and 6). Sample Point 8 is vegetated with UPL and FACU species (Table 1), and channel widths range from one foot to three feet. At the upstream end of Sample Point 8 there is an 18-inch concrete outfall pipe; at the point where Drainage C exits the site along the southern site boundary, there is an 18-inch concrete inlet pipe. Sample Point 8 did not meet the hydrophytic vegetation criterion; therefore, it does not represent a jurisdictional wetland. The drainage at this location would be considered a non-wetland feature, jurisdictional to the Corps and CDFW.

4.5 Drainage/Feature Descriptions

Drainage A

Approximately 0.034 acre (895 linear feet) of ephemeral streambed that is one to two feet wide comprises Drainage A (Figures 5 and 6). Drainage A occurs in the northwestern portion of the project site in a tributary to Spring Canyon.

Drainage B

Approximately 0.106 acre (580 linear feet) of ephemeral streambed that is one to eight feet wide comprises Drainage B (Figures 5 and 6). Drainage B occurs in the southwestern portion of the project site in a tributary to Wruck Canyon.

Drainage C

Approximately 0.012 acre (254 linear feet) of ephemeral streambed that is one to three feet wide comprises Drainage C (Figures 5 and 6) within the study area. Drainage C exits the site through a buried pipe and it is unclear where the pipe outfalls off site to the south. It is assumed that the there is an offsite outlet and that flows would be conveyed westward into Wruck Canyon. This off site flow path is shown as a purple line on the delineation figures.

Concrete Lined Ditch

A portion of a three-foot wide concrete lined brow ditch, which collects water from off site and directs it into Spring Canyon off site, is present in the northernmost portion of the project site (Figures 5 and 6). This constructed feature is non-jurisdictional.

5.0 JURISDICTIONAL DETERMINATION

5.1 U.S. ARMY CORPS OF ENGINEERS

Approximately 0.152 acre (1,999 linear feet) of Corps non-wetland WUS (ephemeral streambed) occurs within the project area (Table 2; Figure 5).

Table 2
Jurisdictional Features (acres/linear feet)

Drainage	WUS		WS		City
	Wetland	Non-wetland	Wetland	Non-wetland	Wetland
A_1	-	0.008/230	-	0.008/230	-
A_2	-	0.008/225	-	0.008/225	-
A_3	-	0.016/440	-	0.016/440	-
B_1	-	0.095/729	-	0.095/729	-
B_2	-	0.011/121	-	0.011/121	-
C	-	0.012/254	-	0.012/254	-
Concrete Feature	-	-	-	-	-
Total	**0.000**	**0.152/1,999**	**0.000**	**0.152/1,999**	**0.000**

[1]Corps jurisdictional Waters of the U.S.
[2]RWQCB & CDFW jurisdictional Waters of the State

5.2 REGIONAL WATER QUALITY CONTROL BOARD

Approximately 0.152 acre (1,999 linear feet) of RWQCB non-wetland WS (ephemeral streambed) occurs within the project area (Table 2; Figure 6).

5.3 CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

Approximately 0.152 acre (1,999 linear feet) of CDFW non-wetland WS (ephemeral streambed) occurs within the project area (Table 2; Figure 6).

5.4 CITY OF SAN DIEGO

The non-wetland WUS/WS discussed above do not meet the City's Wetland definition. According to the City's Land Development Code Biology Guidelines (City 2012), seasonal drainage patterns (i.e., ephemeral/intermittent drainages and streambeds), do not satisfy City's Wetland definition unless wetland dependent vegetation is either present in the drainage or lacking due to past human activities. The non-wetland waters lack wetland vegetation (Table 1; not due to past human activities) and, therefore, are not City Wetlands.

6.0 REFERENCES

City of San Diego. 2014. Otay Mesa Community Plan Update Final Environmental Impact Report. Revised February 21.

2012. Land Development Code Biology Guidelines. Adopted September 1999. Last amended April 23, 2012 by Resolution No. R-307376.

1997a. Multiple Species Conservation Program. City of San Diego MSCP Subarea Plan. March.

Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi. 100 pp. with Appendices.

Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. The National Wetland Plant List: 2016 Wetland Ratings. Phytoneuron 2016-30: 1-17. April.

Munsell Color. 2009. Munsell Soil Color Charts. X-rite. Grand Rapids, Michigan.

U.S. Army Corps of Engineers.

2008a. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0). Eds. J.S. Wakely, R.W. Lichvar, and C.V. Noble. ERDC/EL TR-08-28. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

2008b. A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States.

U.S. Department of Agriculture, Natural Resources Conservation Service. 2015. National Hydric Soils List. https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcseprd1316620.html

JD Report
Appendix A
SAMPLE FORMS

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Lumina Tentative Map Project City/County: San Diego Sampling Date: 11/28/2018

Applicant/Owner: ColRich Communities State: CA Sampling Point: 1

Investigator(s): Greg Mason Section, Township, Range: S33, T18S, R1W

Landform (hillslope, terrace, etc.): Canyon Local relief (concave, convex, none): concave Slope (%): 30-50

Subregion (LRR): C - Mediterranean California Lat: 32.5615938633 Long: -116.992561015 Datum:

Soil Map Unit Name: Olivenhain cobbly loam NWI classification: Riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ◉ No ◯ (If no, explain in Remarks.)

Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ◯

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◯	No ◉	
Hydric Soil Present?	Yes ◯	No ◉	**Is the Sampled Area within a Wetland?** Yes ◯ No ◉
Wetland Hydrology Present?	Yes ◉	No ◯	

Remarks: Soils do not show hydric features and there are no wetland plant species present. There is bed/bank showing the limits of water conveyance during rainfall events. As such, wetland hydrology (ephemeral conveyance indicators) was determined to be present. Soils and vegetation indicators were not present. Location deemed to be a non-wetland WUS/WS (ephemeral drainage/streambed).

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Artemisia californica*	5	No	UPL
2.			
3.			
4.			
5.			
Total Cover:	5 %		
Herb Stratum			
1. *Bromus madritensis ssp. rubens*	30	Yes	UPL
2. *Salsola australis*	25	Yes	FACU
3. *Centaurea melitensis*	10	No	FACU
4. *Brassica nigra*	15	No	FACU
5. *Marrubium vulgare*	10	No	FACU
6.			
7.			
8.			
Total Cover:	90 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 5 % % Cover of Biotic Crust 0 %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
Total Number of Dominant Species Across All Strata:	2	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0.0 %	(A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species	60	x 4 =	240
UPL species	35	x 5 =	175
Column Totals:	95 (A)		415 (B)

Prevalence Index = B/A = 4.37

Hydrophytic Vegetation Indicators:

- ◉ Dominance Test is >50%
- ◉ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ◯ No ◉

Remarks: Point is within non-native grassland habitat at bottom of canyon.

SOIL

Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
10	7.5 YR 4/4						Loam	Very cobbly

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ○ No ◉

Remarks: Mapped soil type is Olivenhain cobbly loam, which coincides with field conditions. Soil within sample shows no sign of hydric features. Difficult to dig with cobbles, generally in 2" - 4" diameter range

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☒ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ○	No ◉	Depth (inches):
Water Table Present?	Yes ○	No ◉	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes ○	No ◉	Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Drainage shows typical bed and bank, characteristic of ephemeral drainages. Evidence of water flows during rainfall events, no evidence of standing water. Some edge lines and cutting to form channel. Width of feature approximately 1 foot. Adjacent area is non-native grassland and does not show evidence of wetland features or water leaving the bed/bank drainage. Point is in ephemeral drainage in an upland situation.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Lumina Tentative Map Project City/County: San Diego Sampling Date: 11/28/2018

Applicant/Owner: ColRich Communities State: CA Sampling Point: 2

Investigator(s): Greg Mason Section, Township, Range: S33, T18S, R1W

Landform (hillslope, terrace, etc.): Canyon Local relief (concave, convex, none): concave Slope (%): 30-50

Subregion (LRR): C - Mediterranean California Lat: 32.5612424569 Long: -116.992281977 Datum:

Soil Map Unit Name: Olivenhain cobbly loam NWI classification: Riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ◉ No ◯ (If no, explain in Remarks.)

Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ◯

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◯	No ◉	
Hydric Soil Present?	Yes ◯	No ◉	**Is the Sampled Area within a Wetland?** Yes ◯ No ◉
Wetland Hydrology Present?	Yes ◉	No ◯	

Remarks: Same as SP1. There is bed/bank showing the limits of water conveyance during rainfall events. As such, wetland hydrology (ephemeral conveyance indicators) was determined to be present. Soils and vegetation indicators were not present. Location deemed to be a non-wetland WUS/WS (ephemeral drainage/streambed).

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Bromus madritensis ssp. rubens*	50	Yes	UPL
2. *Salsola australis*	25	Yes	FACU
3. *Brassica nigra*	25	Yes	FACU
4.			
5.			
6.			
7.			
8.			
Total Cover:	100%		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 10 % % Cover of Biotic Crust 0 %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
Total Number of Dominant Species Across All Strata:	3	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0.0 %	(A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species	50	x 4 =	200
UPL species	50	x 5 =	250
Column Totals:	100 (A)		450 (B)

Prevalence Index = B/A = 4.50

Hydrophytic Vegetation Indicators:

- ◉ Dominance Test is >50%
- ◉ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ◯ No ◉

Remarks: Point is within non-native grassland habitat at bottom of canyon.

SOIL

Sampling Point: 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ○ No ◉

Remarks: Mapped soil type is Olivenhain cobbly loam, which coincides with field conditions. Soil within sample shows no sign of hydric features. No pit dug as site is very close to SP1 and exhibits the same observable conditions.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☒ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ○	No ◉	Depth (inches):
Water Table Present?	Yes ○	No ◉	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes ○	No ◉	Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: As with SP1, drainage shows typical bed and bank, characteristic of ephemeral drainages. Evidence of water flows during rainfall events, no evidence of standing water. Some edge lines and cutting to form channel. Width of feature approximately 2 feet. Adjacent area is non-native grassland and does not show evidence of wetland features or water leaving the bed/bank drainage. Point is in ephemeral drainage in an upland situation.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Lumina Tentative Map Project City/County: San Diego Sampling Date: 11/28/2018

Applicant/Owner: ColRich Communities State: CA Sampling Point: 3

Investigator(s): Greg Mason Section, Township, Range: S33, T18S, R1W

Landform (hillslope, terrace, etc.): Canyon Local relief (concave, convex, none): concave Slope (%): 30-50

Subregion (LRR): C - Mediterranean California Lat: 32.5607897692 Long: -116.99177882 Datum:

Soil Map Unit Name: Olivenhain cobbly loam NWI classification: Riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ◉ No ◯ (If no, explain in Remarks.)

Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ◯

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◯	No ◉	
Hydric Soil Present?	Yes ◯	No ◉	**Is the Sampled Area within a Wetland?** Yes ◯ No ◉
Wetland Hydrology Present?	Yes ◉	No ◯	

Remarks: Same as SP1 & 2. SP3 at conveyance of 2 branches of Drainage A There is bed/bank showing the limits of water conveyance during rainfall events. As such, wetland hydrology (ephemeral conveyance indicators) was determined to be present. Soils and vegetation indicators were not present. Location deemed to be a non-wetland WUS/WS (ephemeral drainage/streambed).

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Artemisia californica*	25	Yes	UPL
2. *Foeniculum vulgare*	10	No	FACU
3.			
4.			
5.			
Total Cover:	35 %		
Herb Stratum			
1. *Bromus madritensis ssp. rubens*	30	Yes	UPL
2. *Salsola australis*	10	Yes	FACU
3. *Brassica nigra*	20	Yes	FACU
4.			
5.			
6.			
7.			
8.			
Total Cover:	60 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 5 % % Cover of Biotic Crust 0 %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species	40	x 4 =	160
UPL species	55	x 5 =	275
Column Totals:	95 (A)		435 (B)

Prevalence Index = B/A = 4.58

Hydrophytic Vegetation Indicators:

- ◉ Dominance Test is >50%
- ◉ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ◯ No ◉

Remarks: Point is within disturbed Diegan coastal sage scrub habitat at bottom of canyon. No hydrophytic vegetation present.

SOIL

Sampling Point: 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
12	7.5YR 3/4						Loam	Lots of cobbles

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ○ No ◉

Remarks: Mapped soil type is Olivenhain cobbly loam, which coincides with field conditions. Soil within sample shows no sign of hydric features. A pit was dug within the bottom, very rocky. No stratification encountered. Hydric indicators not observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☒ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ○	No ◉	Depth (inches):
Water Table Present?	Yes ○	No ◉	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes ○	No ◉	Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Drainage shows typical bed and bank, characteristic of ephemeral drainages. Evidence of water flows during rainfall events, no evidence of standing water. Some edge lines and cutting to form channel. Width of feature approximately 2 feet. Adjacent area is upland sage scrub and does not show evidence of wetland features or water leaving the bed/bank drainage. Point is in ephemeral drainage in an upland situation.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Lumina Tentative Map Project City/County: San Diego Sampling Date: 11/28/2018

Applicant/Owner: ColRich Communities State: CA Sampling Point: 4

Investigator(s): Greg Mason Section, Township, Range: S33, T18S, R1W

Landform (hillslope, terrace, etc.): Canyon Local relief (concave, convex, none): concave Slope (%): 30-50

Subregion (LRR): C - Mediterranean California Lat: 32.5607239999 Long: -116.991111596 Datum:

Soil Map Unit Name: Olivenhain cobbly loam NWI classification: Riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ◉ No ◯ (If no, explain in Remarks.)

Are Vegetation ☒ Soil ☒ or Hydrology ☒ significantly disturbed? Are "Normal Circumstances" present? Yes ◯ No ◉

Are Vegetation ☐ Soil ☒ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◯	No ◉	
Hydric Soil Present?	Yes ◯	No ◉	**Is the Sampled Area within a Wetland?** Yes ◯ No ◉
Wetland Hydrology Present?	Yes ◉	No ◯	

Remarks: Edge of AG field, heavy dumping of soil and debris, numerous goat skeletons. No pit as surface is dumped AG soils. Bed/bank is present so wetland hydrology (ephemeral conveyance indicators) was determined to be present. Soils and vegetation indicators were not present. Location deemed to be a non-wetland WUS/WS (ephemeral drainage/streambed).

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Artemisia californica*	10	No	UPL
2. *Foeniculum vulgare*	10	No	FACU
3.			
4.			
5.			
Total Cover:	20 %		
Herb Stratum			
1. *Centaurea melitensis*	30	Yes	UPL
2. *Brassica nigra*	20	Yes	FACU
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	50 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 50 % % Cover of Biotic Crust 0 %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species	30	x 4 =	120
UPL species	40	x 5 =	200
Column Totals:	70 (A)		320 (B)

Prevalence Index = B/A = 4.57

Hydrophytic Vegetation Indicators:

- ◉ Dominance Test is >50%
- ◉ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ◯ No ◉

Remarks: Point is within disturbed Diegan coastal sage scrub habitat at top of canyon. No hydrophytic vegetation present. Area is heavily disturbed by agricultural activities and dumping. Appears to be several feet of dumped soil, trash, and other debris.

SOIL

Sampling Point: 4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture[3]	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ○ No ◉

Remarks: Mapped soil type is Olivenhain cobbly loam; however, surface soil is comprised of a mix of dumped AG soil and debris. No hydric soil indicators observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☒ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ○	No ◉	Depth (inches):
Water Table Present?	Yes ○	No ◉	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes ○	No ◉	Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Drainage shows typical bed and bank, characteristic of ephemeral drainages. Evidence of water flows during rainfall events, no evidence of standing water. Some edge lines and cutting to form channel. Width of feature approximately 1 foot. Edge of AG fields at top of canyon. Heavily disturbed.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Lumina Tentative Map Project City/County: San Diego Sampling Date: 11/28/2018

Applicant/Owner: ColRich Communities State: CA Sampling Point: 5

Investigator(s): Greg Mason Section, Township, Range: S33, T18S, R1W

Landform (hillslope, terrace, etc.): Canyon Local relief (concave, convex, none): concave Slope (%): 30-50

Subregion (LRR): C - Mediterranean California Lat: 32.5602288853 Long: -116.991903139 Datum:

Soil Map Unit Name: Olivenhain cobbly loam NWI classification: Riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ◉ No ◯ (If no, explain in Remarks.)

Are Vegetation ☒ Soil ☒ or Hydrology ☒ significantly disturbed? Are "Normal Circumstances" present? Yes ◯ No ◉

Are Vegetation ☐ Soil ☒ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◯	No ◉	
Hydric Soil Present?	Yes ◯	No ◉	**Is the Sampled Area within a Wetland?** Yes ◯ No ◉
Wetland Hydrology Present?	Yes ◉	No ◯	

Remarks: Edge of AG field, heavy dumping of soil and debris, numerous goat skeletons. No pit as surface is dumped AG soils. Bed/bank is present so wetland hydrology (ephemeral conveyance indicators) was determined to be present. Soils and vegetation indicators were not present. Location deemed to be a non-wetland WUS/WS (ephemeral drainage/streambed).

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Xanthium strumarium*	10	No	FAC
2.			
3.			
4.			
5.			
Total Cover:	10 %		
Herb Stratum			
1. *Marrubium vulgare*	10	No	FACU
2. *Brassica nigra*	20	Yes	FACU
3. *Salsola australis*	20	Yes	FACU
4.			
5.			
6.			
7.			
8.			
Total Cover:	50 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 50 % % Cover of Biotic Crust 0 %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species	10	x 3 =	30
FACU species	50	x 4 =	200
UPL species		x 5 =	0
Column Totals:	60 (A)		230 (B)

Prevalence Index = B/A = 3.83

Hydrophytic Vegetation Indicators:

- ◉ Dominance Test is >50%
- ◉ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ◯ No ◉

Remarks: Point is within disturbed Diegan coastal sage scrub habitat at top of canyon. No hydrophytic vegetation present. Area is heavily disturbed by agricultural activities and dumping. Dumped soil, trash, and other debris.

SOIL

Sampling Point: 5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture[3]	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[4]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ○ No ◉

Remarks: Mapped soil type is Olivenhain cobbly loam; however, surface soil is comprised of a mix of dumped AG soil and debris. No hydric soil indicators observed. No pit dug.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☒ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ○	No ◉	Depth (inches):
Water Table Present?	Yes ○	No ◉	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes ○	No ◉	Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Drainage shows typical bed and bank, characteristic of ephemeral drainages. Evidence of water flows during rainfall events, no evidence of standing water. Some edge lines and cutting to form channel. Width of feature approximately 1 foot. Edge of AG fields at top of canyon. Heavily disturbed.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Lumina Tentative Map Project City/County: San Diego Sampling Date: 11/28/2018

Applicant/Owner: ColRich Communities State: CA Sampling Point: 6

Investigator(s): Greg Mason Section, Township, Range: S33, T18S, R1W

Landform (hillslope, terrace, etc.): Canyon Local relief (concave, convex, none): concave Slope (%): 30-50

Subregion (LRR): C - Mediterranean California Lat: 32.554481777 Long: -116.991828794 Datum:

Soil Map Unit Name: Olivenhain cobbly loam NWI classification: Riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ◉ No ◯ (If no, explain in Remarks.)

Are Vegetation ☒ Soil ☒ or Hydrology ☒ significantly disturbed? Are "Normal Circumstances" present? Yes ◯ No ◉

Are Vegetation ☐ Soil ☒ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◯	No ◉	
Hydric Soil Present?	Yes ◯	No ◉	**Is the Sampled Area within a Wetland?** Yes ◯ No ◉
Wetland Hydrology Present?	Yes ◉	No ◯	

Remarks: Bottom of narrow canyon surrounded by AG uses, heavy dumping of soil and debris. Bed/bank is present so wetland hydrology (ephemeral conveyance indicators) was determined to be present. Soils and vegetation indicators were not present. Location deemed to be a non-wetland WUS/WS (ephemeral drainage/streambed).

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Nicotiana glauca*	30	Yes	FACU
2.			
3.			
4.			
Total Cover:	30 %		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Salsola australis*	20	Yes	FACU
2. *Brassica nigra*	30	Yes	FACU
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	50 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 50 % % Cover of Biotic Crust 0 %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species	80	x 4 =	320
UPL species		x 5 =	0
Column Totals:	80 (A)		320 (B)

Prevalence Index = B/A = 4.00

Hydrophytic Vegetation Indicators:

- ◉ Dominance Test is >50%
- ◉ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ◯ No ◉

Remarks: Point is within disturbed land at bottom of canyon. Hydrophytic vegetation not present. Area is heavily disturbed by agricultural activities and dumping. Dumped soil, trash, and other debris.

SOIL

Sampling Point: 6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
14	7.5 YR 3/3						Sandy loam	some cobble and AG soils

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ○ No ◉

Remarks: Mapped soil type is Olivenhain cobbly loam; however, surface soil is comprised of a mix of dumped AG soil and debris. No hydric soil indicators observed. Pit dug and data taken in what appeared to be less comprised of dumped AG soils.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☒ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ○	No ◉	Depth (inches):
Water Table Present?	Yes ○	No ◉	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes ○	No ◉	Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Drainage shows typical bed and bank, characteristic of ephemeral drainages. Evidence of water flows during rainfall events, no evidence of standing water. Some edge lines and cutting to form channel. Width of feature approximately 8 feet. Bottom of canyon. Heavily disturbed.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Lumina Tentative Map Project City/County: San Diego Sampling Date: 11/28/2018

Applicant/Owner: ColRich Communities State: CA Sampling Point: 7

Investigator(s): Greg Mason Section, Township, Range: S33, T18S, R1W

Landform (hillslope, terrace, etc.): Canyon Local relief (concave, convex, none): concave Slope (%): 30-50

Subregion (LRR): C - Mediterranean California Lat: 32.5539068541 Long: -116.991742103 Datum:

Soil Map Unit Name: Olivenhain cobbly loam NWI classification: Riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ◉ No ◯ (If no, explain in Remarks.)

Are Vegetation ☒ Soil ☒ or Hydrology ☒ significantly disturbed? Are "Normal Circumstances" present? Yes ◯ No ◉

Are Vegetation ☐ Soil ☒ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◯	No ◉	
Hydric Soil Present?	Yes ◯	No ◉	**Is the Sampled Area within a Wetland?** Yes ◯ No ◉
Wetland Hydrology Present?	Yes ◉	No ◯	

Remarks: Bottom of narrow canyon surrounded by AG uses, heavy dumping of soil and debris. Bed/bank is present so wetland hydrology (ephemeral conveyance indicators) was determined to be present. Soils and vegetation indicators were not present. Point is just above remnant built damn that is breached. Location deemed to be a non-wetland WUS/WS (ephemeral drainage/streambed).

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Nicotiana glauca*	30	Yes	FACU
2.			
3.			
4.			
Total Cover:	30 %		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Salsola australis*	30	Yes	FACU
2. *Brassica nigra*	30	Yes	FACU
3. *Centaurea melitensis*	10	No	FACU
4.			
5.			
6.			
7.			
8.			
Total Cover:	70 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 30 % % Cover of Biotic Crust 0 %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
Total Number of Dominant Species Across All Strata:	3	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0.0 %	(A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species	100	x 4 =	400
UPL species		x 5 =	0
Column Totals:	100 (A)		400 (B)

Prevalence Index = B/A = 4.00

Hydrophytic Vegetation Indicators:

- ◉ Dominance Test is >50%
- ◉ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ◯ No ◉

Remarks: Point is within disturbed land at bottom of canyon. Hydrophytic vegetation not present. Area is heavily disturbed by agricultural activities and dumping. Dumped soil, trash, and other debris.

SOIL

Sampling Point: 7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
10	7.5 YR 3/3						Sandy loam	some cobble and AG soils

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ○ No ◉

Remarks: Mapped soil type is Olivenhain cobbly loam; however, surface soil is comprised of a mix of dumped AG soil and debris. No hydric soil indicators observed. Pit dug and data taken in what appeared to be less comprised of dumped AG soils.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☒ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ○	No ◉	Depth (inches):
Water Table Present?	Yes ○	No ◉	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes ○	No ◉	Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Drainage shows typical bed and bank, characteristic of ephemeral drainages. Evidence of water flows during rainfall events, no evidence of standing water. Some edge lines and cutting to form channel. Width of feature approximately 8 feet. Bottom of canyon. Heavily disturbed.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Lumina Tentative Map Project City/County: San Diego Sampling Date: 11/28/2018

Applicant/Owner: ColRich Communities State: CA Sampling Point: 8

Investigator(s): Greg Mason Section, Township, Range: S33, T18S, R1W

Landform (hillslope, terrace, etc.): Canyon Local relief (concave, convex, none): concave Slope (%): 30-50

Subregion (LRR): C - Mediterranean California Lat: 32.5537305514 Long: -116.990314397 Datum:

Soil Map Unit Name: Olivenhain cobbly loam NWI classification: Riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ◉ No ◯ (If no, explain in Remarks.)

Are Vegetation ☒ Soil ☒ or Hydrology ☒ significantly disturbed? Are "Normal Circumstances" present? Yes ◯ No ◉

Are Vegetation ☐ Soil ☒ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◯	No ◉	
Hydric Soil Present?	Yes ◯	No ◉	**Is the Sampled Area within a Wetland?** Yes ◯ No ◉
Wetland Hydrology Present?	Yes ◉	No ◯	

Remarks: Bottom of narrow canyon surrounded by AG uses, heavy dumping of soil and debris. Bed/bank is present so wetland hydrology (ephemeral conveyance indicators) was determined to be present. Soils and vegetation indicators were not present. Point is just above outfall pipe that conveys water offsite. Location deemed to be a non-wetland WUS/WS (ephemeral drainage/streambed).

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Nicotiana glauca*	30	Yes	FACU
2.			
3.			
4.			
Total Cover:	30 %		
Sapling/Shrub Stratum			
1. *Artemisia californica*	5	No	UPL
2. *Salvia mellifera*	5	No	UPL
3. *Nicotiana glauca*	10	No	FACU
4.			
5.			
Total Cover:	20 %		
Herb Stratum			
1. *Dittrichia graveolens*	10	No	FACU
2. *Brassica nigra*	40	Yes	FACU
3. *Centaurea melitensis*	20	Yes	FACU
4. *Glebionis coronaria*	20	Yes	FACU
5.			
6.			
7.			
8.			
Total Cover:	90 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 10 % % Cover of Biotic Crust 0 %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
Total Number of Dominant Species Across All Strata:	4	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0.0 %	(A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species	130	x 4 =	520
UPL species	10	x 5 =	50
Column Totals:	140 (A)		570 (B)

Prevalence Index = B/A = 4.07

Hydrophytic Vegetation Indicators:

- ◉ Dominance Test is >50%
- ◉ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ◯ No ◉

Remarks: Point is within disturbed land at bottom of canyon. Hydrophytic vegetation not present. Area is heavily disturbed by agricultural activities and dumping. Dumped soil, trash, and other debris.

SOIL

Sampling Point: 8

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
10	7.5 YR 3/3						Sandy loam	some cobble and AG soils

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
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Indicators for Problematic Hydric Soils:[4]

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ○ No ◉

Remarks: Mapped soil type is Olivenhain cobbly loam; however, surface soil is comprised of a mix of dumped AG soil and debris. No hydric soil indicators observed. Pit dug and data taken in what appeared to be less comprised of dumped AG soils.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☒ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ○	No ◉	Depth (inches):
Water Table Present?	Yes ○	No ◉	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes ○	No ◉	Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Drainage shows typical bed and bank, characteristic of ephemeral drainages. Evidence of water flows during rainfall events, no evidence of standing water. Some edge lines and cutting to form channel. Width of feature approximately 8 feet. Bottom of canyon. Heavily disturbed.

JD Report
Appendix B
REPRESENTATIVE PHOTOGRAPHS

Representative Photographs

Photo Point 1. View NW from N end of A_3.11/28/18 GM

Photo Point 2. View SE from N end of A_3. 11/28/18 GM

Photo Point 3. Sample Point 1 in A_3. 11/28/18 GM

Photo Point 4. View NW from central part of A_3. 11/28/18 GM

Photo Point 5. View SE from central part of A_3. 11/28/18 GM

Photo Point 6. Sample Point 2 in A_3. 11/28/18 GM

Photo Point 7. Sample Point 3 at intersection of A_1 and A_2. 11/28/18 GM

Photo Point 8. View E from end of A_1.11/28/18 GM

Photo Point 9. View S from end of A_2.11/28/18 GM

Photo Point 10. Sample Point 4 in A_1.11/28/18 GM

Photo Point 11. View NW from top of A_1.11/28/18 GM

Photo Point 12. Sample Point 5 in A_2. 11/28/18 GM

Photo Point 13. View NE from top of A_2. 11/28/18 GM

Photo Point 14. View N from top of B_1.11/28/18 GM

Photo Point 15. View of dam at top of B_1.11/28/18 GM

Photo Point 16. View SE from top of B_1. 11/28/18 GM

Photo Point 17. View NW from N central portion of B_1. 11/28/18 GM

Photo Point 18. View SE from N central portion of B_1. 11/28/18 GM

Photo Point 19. View S from central portion of B_1. 11/28/18 GM

Photo Point 20. Sample Point 6 in B_1. 11/28/18 GM

Photo Point 21. View S from central portion of B_1. 11/28/18 GM

Photo Point 22. View E from intersection of B_1 and B_2. 11/28/18 GM

Photo Point 23. View NE from center of B_2. 11/28/18 GM

Photo Point 24. View N from lower portion of B_1.11/28/18 GM

Photo Point 25. Sample Point 7 in B_1. 11/28/18 GM

Photo Point 26. View S from breached dam at S end of B_1. 11/28/18 GM

Photo Point 27. View W overlooking S end of B_1. 11/28/18 GM

Photo Point 28. View SW offsite over S end of B_1. 11/28/18 GM

Photo Point 29. View SW offsite toward Wruck Canyon. 11/28/18 GM

Photo Point 30. View E looking offsite beneath C. 11/28/18 GM

Photo Point 31. View of pipe at bottom of C. 11/28/18 GM

Photo Point 32. View E from S end of C. 11/28/18 GM

Photo Point 33. Sample Point 8 in C. 11/28/18 GM

Photo Point 34. View E from central portion of C. 11/28/18 GM

Photo Point 35. Overlook view W above C. 11/28/18 GM

Photo Point 36. View E at upper end of C. 11/28/18 GM

Photo Point 37. View into C at outfall. 11/28/18 GM

Photo Point 38. View of outfall pipe at upper end of C. 11/28/18 GM

JD Report
Appendix C
WETS TABLE

WETS Table

WETS Station: SAN DIEGO BROWN FIELD, CA								
Requested years: 1971 - 2018								
Month	Avg Max Temp	Avg Min Temp	Avg Mean Temp	Avg Precip	30% chance precip less than	30% chance precip more than	Avg number days precip 0.10 or more	Avg Snowfall
Jan	67.5	44.2	55.9	1.48	0.48	1.77	3	-
Feb	66.6	44.9	55.8	1.98	0.76	2.39	4	-
Mar	68.1	47.2	57.7	0.97	0.51	1.18	3	-
Apr	69.8	49.6	59.7	0.80	0.39	0.93	2	-
May	71.6	54.4	63.0	0.30	0.05	0.28	1	-
Jun	74.3	58.1	66.2	0.05	0.00	0.05	0	-
Jul	78.7	61.9	70.3	0.04	0.00	0.04	0	-
Aug	80.1	62.5	71.3	0.02	0.00	0.02	0	-
Sep	80.1	60.9	70.5	0.15	0.04	0.15	0	-
Oct	76.6	55.6	66.1	0.58	0.09	0.53	1	-
Nov	71.9	48.8	60.3	0.75	0.36	0.92	2	-
Dec	66.7	43.8	55.2	1.53	0.58	1.85	3	-
Annual:					-	-		
Average	72.7	52.7	62.7	-	-	-	-	-
Total	-	-	-	8.64			19	-

GROWING SEASON DATES			
Years with missing data:	24 deg = 26	28 deg = 26	32 deg = 26
Years with no occurrence:	24 deg = 22	28 deg = 22	32 deg = 21
Data years used:	24 deg = 22	28 deg = 22	32 deg = 22
Probability	24 F or higher	28 F or higher	32 F or higher
50 percent *	No occurrence	No occurrence	No occurrence
70 percent *	No occurrence	No occurrence	No occurrence
* Percent chance of the growing season occurring between the Beginning and Ending dates.			

STATS TABLE - total precipitation (inches)													
Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annl
1945				M0.02		M0.50	M0.01	MT	0.01	MT	M0.22	M0.40	1.16
1946	0.11	0.58	1.40	0.01	MT								2.10
1947													
1948													
1949													
1950													
1951													
1952													
1953													
1954										T	0.60	0.53	1.13
1955	3.97	0.93	M0.38	M0.90	1.55	0.02	0.04	0.06	T	T	0.57	0.96	9.38
1956	2.09	0.38	T	1.75	0.36	T	0.02	T	0.00	0.48	0.00	M0.04	5.12
1957	6.59	0.34	1.78	1.26	1.65	M0.55	T	0.01	0.08	2.24	1.27	0.98	16.75

1958	0.66	M3.01	3.80	2.90	0.22	0.00	0.00	0.22	0.12	0.08	0.83	0.04	11.88
1959	0.69	4.27	T	0.48	M0.02	T	T	0.02	0.02	0.33	0.01	2.07	7.91
1960	3.85	1.70	0.53	0.97	0.24	T	T	T	M0.48	M0.13	1.09	0.18	9.17
1961	0.85	0.09	1.69	0.01									2.64
1962													
1963													
1964													
1965													
1966													
1967													
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1997													
1998				1.85	0.91	0.11	0.03	0.17	0.13	0.31	0.97	1.20	5.68
1999	1.96	0.61	1.25	1.64	0.03	0.14	0.18	0.01	0.14	0.03	0.09	0.39	6.47
2000	0.22	3.19	1.06	0.98	M0.03	M0.09	0.01	0.11	0.04	1.01	0.21	0.16	7.11
2001	3.04	2.97	1.12	1.63	0.09	0.06	0.04	0.00	0.07	0.09	1.21	0.75	11.07
2002	0.51	0.10	0.49	0.50	T	M0.00	0.00	0.01	0.32	0.01	0.43	M0.57	2.94
2003	0.09	2.68	1.81	1.70	0.29	M0.08	0.03	0.02	0.02	0.02	0.59	0.50	7.83
2004	0.41	3.58	M0.14	0.84	T	0.00	0.00	0.00	M0.00	4.25	0.86	2.81	12.89
2005	4.15	4.33	1.38	0.29	0.03	0.10	0.12	0.00	0.01	0.39	0.11	0.14	11.05
2006	0.40	1.47	2.03	1.05	0.59	0.08	0.17	0.01	0.00	1.02	0.22	0.60	7.64

2007	0.86	2.99	0.22	0.52	0.01	0.00	T	T	0.14	0.13	0.91	0.58	6.36
2008	2.80	1.04	0.39	T	0.19	0.02	0.01	T	0.02	0.12	1.76	3.88	10.23
2009	0.07	2.40	0.16	0.22	0.03	0.01	0.00	T	0.01	0.04	0.41	2.57	5.92
2010	3.57	2.77	0.74	1.83	0.01	0.00	T	0.00	0.18	1.77	0.70	4.08	15.65
2011	0.55	3.00	1.51	0.34	0.30	0.35	0.01	0.00	0.15	0.30	3.02	0.78	10.31
2012	0.63	M1.32	1.66	1.28	0.01	0.00	T	0.04	0.06	0.61	0.28	2.38	8.27
2013	1.89	0.65	1.06	0.10	0.22	0.00	0.02	T	T	0.54	0.41	0.37	5.26
2014	0.07	0.97	0.72	0.57	0.02	0.00	0.06	0.02	0.02	T	0.29	3.05	5.79
2015	0.36	0.36	1.47	0.25	1.25	0.01	M0.09	T	0.86	0.88	1.35	1.54	8.42
2016	2.48	0.01	1.03	1.04	0.80	0.00	T	0.00	0.74	0.01	0.95	4.17	11.23
2017	3.97	4.18	0.09	0.00	1.32	T	0.01	T	0.13	T	0.31	0.09	10.10
2018	1.58	0.93	1.03	0.07	0.13	T	T	MT					3.74

Notes: Data missing in any month have an "M" flag. A "T" indicates a trace of precipitation.

Data missing for all days in a month or year is blank.

Creation date: 2016-07-22

Appendix F

Coastal Sage Scrub Restoration Plan

Coastal Sage Scrub Restoration Plan for the Lumina Tentative Map Project

November 30, 2018

Prepared for:

ColRich Communities
444 West Beech Street, Suite 300
San Diego, CA 92101

Prepared by:

Alden Environmental, Inc.
3245 University Avenue, #1188
San Diego, CA 92104

ALDEN
ENVIRONMENTAL, INC

Coastal Sage Scrub Restoration Plan for the Lumina Tentative Map Project

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Coastal Sage Scrub Restoration Plan for the Lumina Tentative Map Project

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1.0 INTRODUCTION

This Diegan coastal sage scrub (CSS) habitat restoration plan has been prepared for the Lumina Tentative Map Project (Project) in accordance with the requirements of the City of San Diego (City). Specifically, the habitat restoration described herein is proposed as mitigation for Project impacts to non-native grassland (NNG) habitat. All restoration activities will occur within the limits of the Project and are intended to increase and enhance the native habitats within and adjacent to the MHPA. Impacts and associated mitigation for the Project were presented in the Biological Technical Report for the Lumina Tentative Map Project (Alden, 2018).

2.0 DESCRIPTION OF THE RESTORATION SITE

2.1 SITE LOCATION

The CSS restoration site is located on what are referred to as the Barton Parcels on the northern end of the Project Site in the City (Figures 1 & 2). The CSS creation effort will occur in an approximately 0.7 acre area (Figure 3) within the Barton Parcels. This area currently supports disturbed and agricultural uses. The area also is within and adjacent to the City's Multi-Habitat Planning Area (MHPA). Additionally, the area identified for CSS creation was situated such that it would be outside of the right of way for the future Airway Road.

2.2 OWNERSHIP STATUS

The Barton parcels are currently owned by the Project proponent, ColRich Communities.

3.0 RESTORATION DESIGN

3.1 CSS RESTORATION

This effort includes restoration (creation) of CSS habitat within a disturbed agricultural area. The term "restoration" is used in this document to both generally describe the overall effort as well as specifically refer to creation of CSS habitat in areas where it does not currently occur. A total of 0.7 acre of CSS habitat would be created within the Barton parcels. The CSS habitat would be created within a disturbed agricultural area. The site also includes NNG and CSS habitat that would be preserved as additional mitigation for the Project. No activities, aside from preservation, are proposed in the area outside of the CSS creation area.

4.0 IMPLEMENTATION PLAN

The CSS creation will consist of several components, including:

- Initial site preparation
- Installation of CSS habitat

4.1 RATIONALE FOR EXPECTING IMPLEMENTATION SUCCESS

The site selected for the restoration effort currently supports disturbed agricultural lands in an area that has suitable soils and topography to support CSS habitat. This plan would replace the agricultural area with native CSS habitat, thereby improving habitat quality and functions. The site also is adjacent to other CSS and NNG habitat that would be preserved by the project and contribute to the overall MHPA.

4.2 RESPONSIBLE PARTIES

4.2.1 Project Proponent

ColRich Communities (or the owner at the time of implementation) will be responsible for financing the installation, maintenance, and monitoring of the restoration (CSS creation) measures.

4.2.2 Restoration Specialist

Overall supervision of the installation, maintenance, and monitoring of this program will be the responsibility of a restoration specialist with a minimum of 5 years of habitat restoration experience. The restoration specialist will educate all participants with regard to program goals and directly oversee all aspects of the project. In addition, the specialist will conduct all monitoring data collection, annual assessments, and prepare all required reports. If necessary, the restoration specialist will provide the project proponent and contractor with a brief report, including a written list of items in need of attention following each monitoring visit. The contractor will be responsible for carrying out all required measures in a timely manner. The restoration specialist will notify the contractor and responsible party if any requested remediation is not addressed. A checklist with the main tasks and responsibilities is included in Table 1.

4.2.3 Installation/Maintenance Contractor

The installation and maintenance contractor(s) will have habitat restoration experience and will, under the direction of the restoration specialist, be responsible for completion of grading, pre-planting weed control, planting, seeding, and maintenance. The restoration specialist will educate the contractor(s) on the installation and maintenance of native plant species.

After the installation is complete, maintenance personnel will initiate the 5-year maintenance program under the direction of the restoration specialist. Maintenance crews will service the entire enhancement area regularly following installation. Service will include but not be limited to weed control, trash removal, watering, dead plant replacement, and re-seeding. All activities conducted will be seasonally appropriate and approved by the restoration specialist. The maintenance crew will meet the restoration specialist at the site when requested and will perform all checklist items in a timely manner as directed by the restoration specialist. The restoration specialist will ensure that maintenance personnel are capable of discerning between native plant species and non-native weed species.

4.3 IMPLEMENTATION SCHEDULE

Implementation of the mitigation program would commence prior to, or in conjunction with the grading of the adjacent Lumina Tentative Map Project.

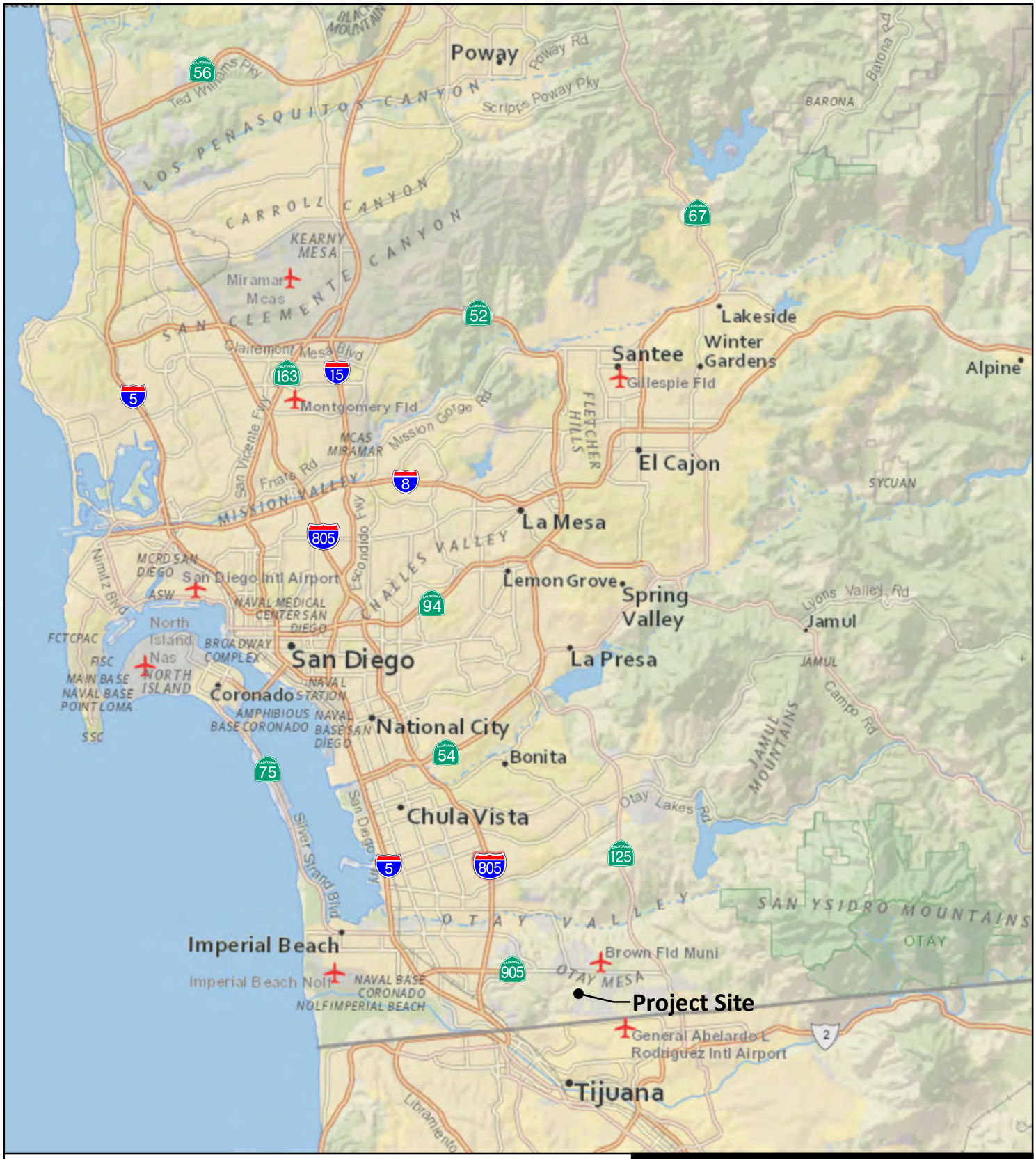

Figure 1

Regional Location

COASTAL SAGE SCRUB RESTORATION PLAN FOR THE LUMINA TENTATIVE MAP PROJECT

N
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0 2 4 Miles

ALDEN ENVIRONMENTAL, INC

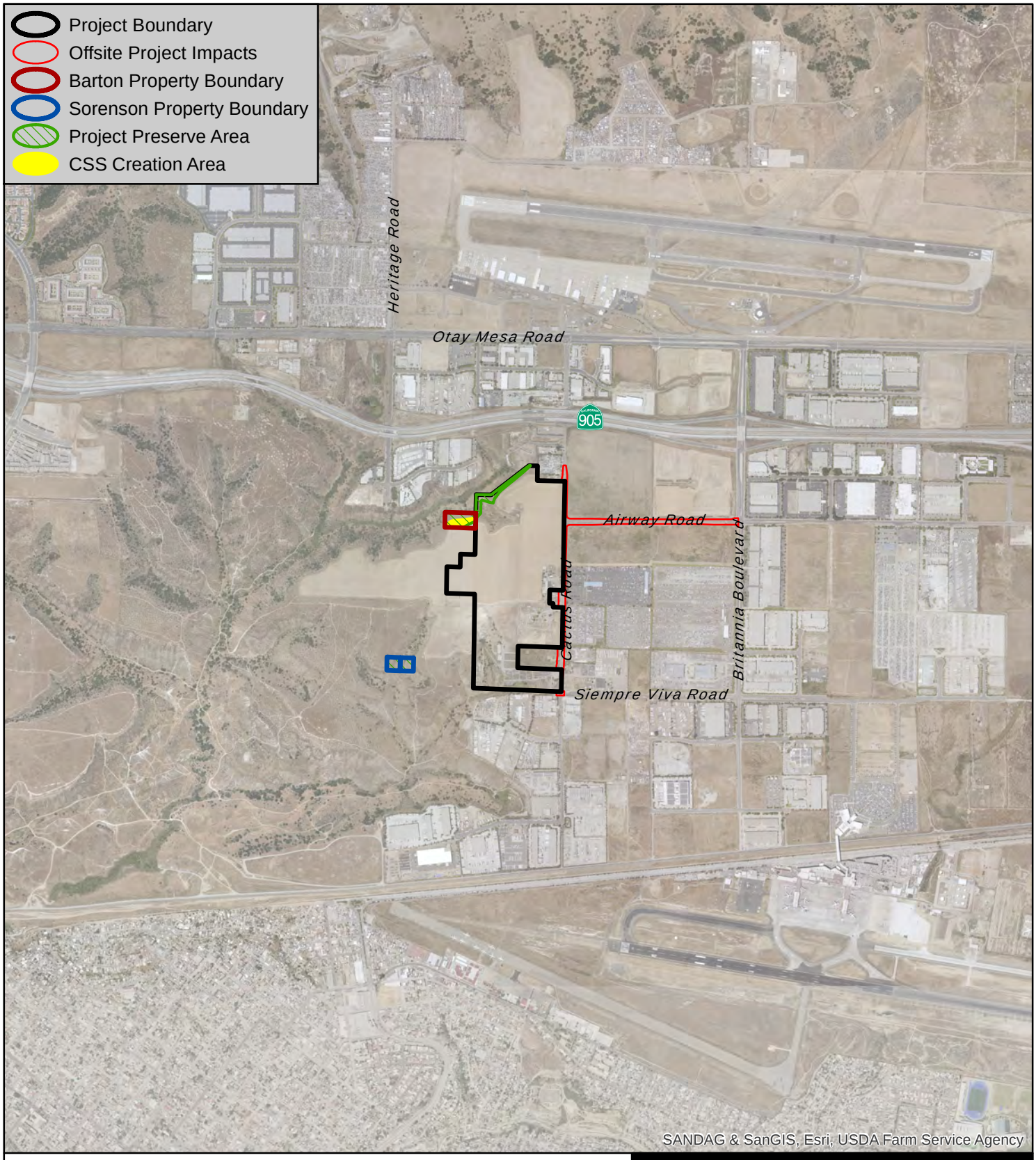

Figure 2

Project Location

COASTAL SAGE SCRUB RESTORATION PLAN
FOR THE LUMINA TENTATIVE MAP PROJECT

N
W E
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0 1,000 2,000 Feet

ALDEN ENVIRONMENTAL, INC

Table 1 MITIGATION PLAN CHECKLIST					
Phase	**Task**	**Applicable Parties**			
		Land Owner	**Installation Contractor**	**Maintenance Contractor**	**Restoration Specialist**
Pre-Installation	Salvage barrel cactus	X			X
	Order seed and container stock		X		
	Attend pre-construction meeting	X	X		X
	Document pre-start conditions				X
	Identify site limits and staging area				X
Installation	Delineate boundaries		X		X
	Install container stock and seed		X		X
	Install salvaged barrel cactus		X		X
	Install irrigation system		X		X
	Prepare/submit as-built report				X
Five-year Maintenance & Monitoring Period	Conduct maintenance monitoring and annual monitoring				X
	Maintain site for remainder of 5 years			X	X

4.4 SITE PREPARATION

As described above, the initial site preparation will involve removal of weeds, refuse, and debris. All deleterious material will be disposed of offsite in a licensed landfill. No grading is proposed as part of this effort.

4.5 FENCING

Prior to and during implementation of the restoration effort, a temporary orange construction fence will restrict access to the habitat creation area. A permanent three strand barbless wire fence will be installed along the boundary between the creation area and the adjacent Project to prevent OHV and pedestrian use of the preserve area. Steel signs will be attached to this fence that will provide notice, in both English and Spanish, that the area is an ecological preserve and that trespassing is prohibited.

4.6 CSS HABITAT

4.6.1 Seed Mix

Seeding will take place within the CSS creation area (Figure 3). The species included in the mix were selected because they are native and occur either on the project site or in the project vicinity. The seed mix is presented in Table 2. The seed will be sourced from as close to the site as possible. The source and proof (tags) for all seed will be provided.

Table 2
COASTAL SAGE SCRUB SEED MIX

SPECIES	POUNDS/ACRE
California encelia (*Encelia californica*)	3
California sage brush (*Artemisia californica*)	3
Chia (*Salvia columbariae*)	1
Fascicled tarweed (*Deinandra fasciculata*)	3
Deerweed (*Acmispon glaber*)	2
Dot-seed plantain (*Plantago erecta*)	5
Flat-top buckwheat (*Eriogonum fasciculatum*)	6
Golden yarrow (*Eriophyllum confertiflorum*)	3
California everlasting (*Gnaphalium californicum*)	3
Goldfields (*Lasthenia californica*)	2
Laurel sumac (*Malosma laurina*)	2
Lemonadeberry (*Rhus integrifolia*)	1
San Diego needlegrass (*Stipa lepida*)	6
TOTAL	**40**

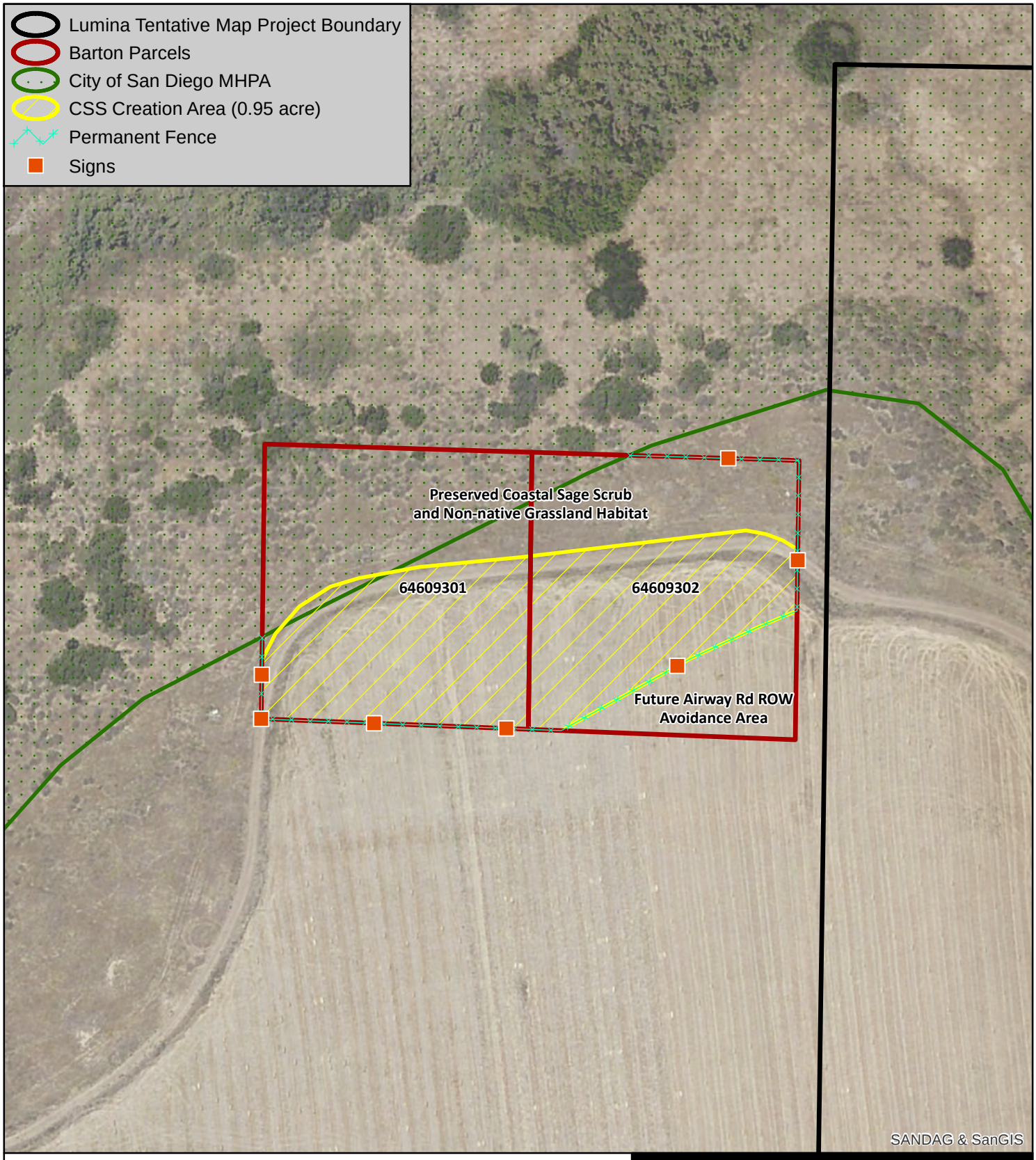

Figure 3

CSS Creation Area

COASTAL SAGE SCRUB RESTORATION PLAN
FOR THE LUMINA TENTATIVE MAP PROJECT

N
W E
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0 50 100 Feet

ALDEN
ENVIRONMENTAL, INC

A hydroseed slurry will be evenly applied in two stages such that an even, homogeneous distribution is made in each area. The first stage will include the seed, a small amount of fiber mulch, and dye. This application will help ensure that maximum seed/soil contact is made. A second layer will be applied immediately following the first. The second layer will include additional fiber mulch, dye, and a tackifier. The tackifier will serve to help bind seed and soil until germination. Hydroseed specifications are presented in Table 3.

Table 3
HYDROSEED APPLICATION SPECIFICATIONS

Material	First Application	Second Application
Seed	As called for per site	N/A
Long fiber wood mulch	500 lbs/acre	1,000 lbs/acre
Dye	As necessary	As necessary
Tackifier	N/A	90 lbs/acre
Water	Sufficient to maintain slurry	Sufficient to maintain slurry

Hand seeding may be conducted in focused areas to help ensure targeted application of seed. Areas not treated with the hydroseed slurry will be hand seeded following hydroseeding to make sure all areas are seeded. These areas will be determined at the time of seeding and will include areas where hydroseeding may not be possible, where existing native plants may be negatively affected by the hydroseed slurry, or where it is thought that certain species may be appropriate in small areas. Seed of different species will only be mixed when they are to be applied to the same location. Individual species may be seeded separately as directed by the project restoration specialist. Hand broadcasters will be used to help ensure a consistent application of seed. An inert carrier (sand, saw dust) may also be mixed with the seed to help maintain consistency. Seeding will not be conducted during windy conditions. Seed will be raked into soil after application to help increase seed/soil contact.

4.6.2 Container Stock

In addition to seed, native container stock will be planted in the CSS restoration area (Table 4). The container stock will be sourced from as close to the site as possible. If container stock is unavailable from the project vicinity, the restoration specialist may substitute species as necessary. The source and proof for all plant material will be provided. All container stock will be inspected and approved by the restoration specialist prior to being installed. Container stock will be installed using the same methods as those identified for the wetland mitigation area above.

Specifically, the restoration specialist will ensure that:

- The correct number, size, and species ordered are delivered;
- Plants are healthy and showing no sign of disease;
- Roots fill the containers, but are not root bound;
- There is no breakage of plants;
- Plants show no evidence of pests;
- Plants are in a state suitable for outplanting.

The restoration specialist will reject any plants not meeting these requirements.

Table 4 COASTAL SAGE SCRUB CONTAINER STOCK SPECIES	
Species	**Number Per Acre**
Laurel sumac (*Malosma laurina*)	10
Coastal prickly pear (*Opuntia littoralis*)	10
Lemonadeberry (*Rhus integrifolia*)	10
San Diego needlegrass (*Stipa lepida*)	300
California sage brush (*Artemisia californica*)	100
California buckwheat (*Eriogonum fasciculatum*)	100
TOTAL	**530**

The installation contractor will be responsible for planting all container stock within four days following delivery. Container stock staged on site will be placed in a protected area and watered regularly prior to planting. Container stock will be planted in such a way as to mimic a natural species distribution. The project restoration specialist will specify the locations for all planting. Plants will be placed in natural groupings with appropriate spacing for the given species/target habitat type. Holes for each plant will be dug twice as deep and twice as wide as the container size. The hole will then be refilled to the halfway point, slightly compacted, and filled with water. Once all the water has soaked into the soil, the container stock will be planted such that the container plant soil level is slightly above ground level. Loose soil will be used to fill in the areas around the root ball and help ensure that there are no air spaces. Remaining soil will be used to create a watering basin around the plant.

4.6.3 San Diego Barrel Cactus Translocation

The Project identified 85 San Diego barrel cactus (*Ferocactus viridescens*) within the proposed Project limits. Prior to initiation of Project grading, the San Diego barrel cactus will be salvaged for translocation to the CSS creation area on the Barton parcels. When salvaging the San Diego barrel cactus, the contractor will mark the south side of each cactus with a small amount of paint and the main taproots will be trimmed to approximately 6 inches. The cactus will then be laid in shade, and kept dry for a week to allow the root to callus over. Roots may also be dusted with sulfur at time of removal to prevent rot. Salvaged cactus will be kept in a holding bed or pot, of native soil mixed with sand. When the cactus is installed at the planting site, the cactus will be oriented with the marked side facing south, to prevent sun damage to the plant.

4.6.4 Additional Material Salvage

The seed and container stock identified above is intended to be implemented without using any native plant/soil material salvaged from the adjacent development project with the exception of barrel cactus that will be salvaged from within the adjacent project impact footprint and transplanted to the CSS creation area. If additional salvaged upland soil/plant material is made available from the adjacent Project during the installation phase it will be incorporated into the restoration area, to the extent practicable.

4.7 IRRIGATION

A temporary, above ground irrigation system will be installed within the CSS creation area. The system will provide head to head coverage to ensure adequate irrigation of both the installed seed mix and container stock species. The system will include timers and ground moisture sensors to help prevent over watering. The timers will be set to emulate a normal rainfall year in the event that actual rainfall does not reach normal levels.

4.8 AS-BUILT CONDITIONS

The revegetation specialist shall prepare and submit a map showing the as-built conditions of the CSS restoration area within 8 weeks of completion of site preparation and planting. Areas seeding and planting shall be shown on the map.

5.0 MAINTENANCE PLAN

5.1 HABITAT MAINTENANCE ACTIVITIES

A 5-year maintenance program is proposed to help ensure the successful establishment and persistence of the restored habitat. The maintenance program will involve removal of trash, weed control, fence and signage repair/replacement, and any remedial measures deemed necessary for restoration program success (e.g., re-seeding and recontouring).

5.1.1 Trash Removal

The maintenance contractor will remove any trash encountered within the restoration/enhancement areas during every maintenance event and dispose of it in a legally acceptable fashion.

5.1.2 Weed Control

Particular maintenance emphasis will be placed on pro-active weed control within the mitigation area. All weed species observed during restoration activities will be considered invasive and targeted for removal. All workers conducting weed removal activities will be educated to distinguish between native and non-native species, with special attention paid to rare and endangered plant species.

Weeds will be removed by hand or with small machinery (e.g., line trimmers) whenever possible, but focused herbicide application may be used if needed and requested by the restoration specialist. Herbicides will only be applied by workers licensed to use those chemicals. Additionally, herbicide will not be used during wet or windy conditions.

Weeds will be removed from the restoration limits and disposed of in a legal manner. All weeds will be removed prior to reaching 12 inches in height or before reaching seed. Leaf and branch drop of native species should be left in place and not removed from the site.

5.2 HABITAT MAINTENANCE SCHEDULE

Regular maintenance, trash removal, and weed control of the mitigation area will be conducted during the first 5 years following implementation of the mitigation program or until the mitigation program is deemed successful. Maintenance personnel will visit the site at least monthly for the 5-year maintenance and monitoring period.

6.0 PERFORMANCE STANDARDS

The following sections provide performance standards to determine the successful completion of the 5-year mitigation and monitoring program. Attainment of these standards indicates the CSS restoration area is progressing toward the habitat functions and services specified for this plan. Methods used to measure these performance standards are described in the following text. If the restored area fails to meet the Year 5 standards after the full monitoring term, a specific set of remedial measures will be developed, implemented, and the monitoring and maintenance period would be extended until all Year 5 standards are met or as otherwise provided in this document. If the site does not meet Year 5 standards, the monitoring and maintenance period would be extended a full year until all are met. Only when the entire mitigation site has attained the Year 5 standards will the entire site be signed off.

6.1 CONTAINER STOCK

During each annual monitoring event there will be no less than 80 percent survival of the initial installed container plants for all five years, unless their function has been replaced by natural recruitment.

6.2 SAN DIEGO BARREL CACTUS

At the end of each year, survivorship of San Diego barrel cactus will be tabulated. If there is a survivorship of less than 90 percent, additional San Diego barrel cactus will be obtained from a native plant nursery and added to the restoration site to replace lost individuals.

NATIVE SPECIES RICHNESS

Species richness success criteria have been established to determine the success of the restoration effort. Species richness will be measured by visual assessment in Years 1 and 2, and by quantitative transect data in Years 3, 4, and 5. No specific richness criteria are established for Years 1 or 2, but annual success criteria for species richness in Years 3, 4, and 5 are provided in Table 5. Corrective measures will be implemented in areas not meeting the species richness goals in any given year.

Table 5
CSS Native Species Richness Success Criteria[1]

Year 3	Year 4	Year 5
10	12	12
10	14	14

[1]Pre-determined, non-relative values

6.3 NATIVE SPECIES COVER

Native species cover success criteria have also been established to determine success of the restoration effort. Species cover will be measured by visual assessment in Years 1 and 2, and by quantitative transect data in Years 3, 4, and 5. No specific cover criteria are established for Years 1 or 2, but annual success criterion Years 3, 4, and 5 are provided in Table 6. Corrective measures will be implemented in areas not meeting the species richness goals in any given year.

Table 6
CSS Native Species Cover Success Criteria[1]

Year 3	Year 4	Year 5
40	60	70

[1]Pre-determined, non-relative values

6.4 WEED COVER

General and target weed cover success criteria have been established for the restoration effort. Given the size of the area and the extent of the weed seed bank, 100% weed eradication for all weed species is not a realistic goal (Some species are highly invasive and others are easier to eradicate). Therefore, species in Table 7 are zero tolerance species and will be controlled at 100% on a yearly basis. Other non-native species are more ubiquitous and can never be completely eliminated and will therefore be managed to a level of 10% or less. If the weed cover success criteria are not met in any given year then remedial measures will be conducted.

Table 7 Zero Tolerance Weed Species		
Latin name	**Common name**	**Cal-IPC Rating[1]**
Atriplex semibaccata	Australian saltbush	M
Carpobrotus spp.	Ice plant, Hottentot's fig	H/M
Cynara cardunculus	Artichoke thistle	M
Cynodon dactylon	Bermuda grass	M
Euphorbia lathyris	Gopher plant	N/A
Foeniculum vulgare	Fennel	H
Hordeum spp	barley	M
Nicotiana glauca	Tree tobacco	M
Ricinus communis	Castor bean	L
Salsola tragus	Russian thistle	L
Silybum marianum	Milk thistle	L
Sorghum halepense	Johnson grass	N/A
Xanthium strumarium	Cocklebur	N/A
[1]H= High invasiveness, M= Moderate invasiveness, L= Low invasiveness N/A= Not listed.		

7.0 MONITORING PLAN

7.1 INSTALLATION MONITORING

The restoration specialist will be on site daily during the installation period to direct all habitat restoration activities including site preparation, weed control, seeding, planting, and watering. Upon completion, the restoration specialist will prepare an as built map and letter and confirm that the 5-year maintenance and monitoring period may begin.

7.2 MAINTENANCE MONITORING

The restoration specialist will conduct regular maintenance monitoring visits during the 5-year maintenance period. Visits will be conducted monthly in Year 1, every other month in Years 2-3, and quarterly in Years 4-5. Additional visits may be required as conditions warrant. During each visit the restoration specialist will assess the condition of the site and identify remedial measures as necessary. A brief monitoring memo will be prepared and submitted to the maintenance contractor following each maintenance monitoring visit.

7.3 ANNUAL MONITORING

Annual monitoring visits will be conducted by the restoration specialist in the late spring each year during the 5-year maintenance period. During each annual monitoring the success of the restoration effort will be evaluated and species richness and cover data will be collected. In Years 1 and 2 species richness and cover will be determined by visual assessment. In Years 3-5 quantitative transect data will be collected.

Quantitative transect data will be collected using the point intercept line transect sampling methods described in the California Native Plant Society's Field Sampling Protocol (Sawyer and Keeler-Wolf 1995). Two 50-m long sampling transects will be established in Year 3 within the CSS creation area. The ends of each transect will be marked with a re-bar stake and recorded with a Global Positioning System (GPS) unit.

Species cover will be determined by dividing each transect into 50 half meter intervals. A point will be projected into the vegetation each interval and any species intercepted by the point will be recorded. Species also will be divided into herb (0- 60 cm), shrub (60cm-3m), and tree (greater than 3 m) layers. Percent cover will be measured by dividing the number of hits by the number of possible hits. Total, native, and non-native cover values will be determined separately.

Native species richness (the number of species) will be calculated by counting all of the species encountered within a 5m wide belt transect along each transect (2.5m on each side). All plants observed will be categorized by origin (native/non-native) and height layer.

Additionally, the survivorship of transplanted San Diego barrel cactus and of container stock plantings will be recorded each year.

Photographs will be taken each year from the same photograph points used prior to initiation of site preparation. The photographs will help track project progress over time and will be included in the annual report each year.

7.4 ANNUAL REPORTS

As part of the monitoring program, annual reports prepared by the restoration specialist will be prepared and submitted evaluating the success of the effort to date, along with any recommendations for future work that may be deemed necessary. Each annual monitoring report will include data collected throughout the year in addition to the annual monitoring visit. To detect the overall trend of the site, the annual monitoring report will contain comparisons of the monitoring data for the years that data are collected.

7.5 REMEDIAL MEASURES/ADAPTIVE MANAGEMENT

If the effort is not progressing as desired, corrective measures may be implemented. Corrective measures may include, but are not limited to: additional planting or seeding, altered maintenance effort, and increased watering regime.

7.6 MONITORING SCHEDULE

As described above, monthly inspections of the restoration and maintenance effort would be performed during Year 1, every other month during Years 2 and 3, and quarterly for the remainder of the 5-year maintenance and monitoring period. The first annual botanical monitoring event will occur in the first spring following installation. Reports will be prepared and submitted within 3 months of the fall annual monitoring visit.

8.0 COMPLETION OF PROGRAM

8.1 NOTIFICATION OF COMPLETION

The land owner shall notify the City upon the mitigation site obtaining the year 5 performance standards through the submittal of the final (Year 5) monitoring report.

8.2 CITY CONFIRMATION

After receipt of the final monitoring report, the City may inspect the site to determine if the CSS creation has been conducted in accordance with this plan.

8.3 LONG-TERM MANAGEMENT

The CSS creation effort is located within a larger area that would be reserved as mitigation for the Project. It is anticipated that all of the preserved habitat would be deeded to the City and that the City would be responsible for long-term maintenance and monitoring.

9.0 CONTINGENCY MEASURES

9.1 INITIATING PROCEDURES

An integral part of a successful restoration effort is the ability to detect problems early in the process, determine the cause of the problem, and attempt to modify the mitigation program to accommodate emerging issues or situations. Minor problems, such as trash, vandalism, isolated instances of plant mortality, or small-scale weed or pest infestations will be rectified as they are discovered during routine site monitoring and would not warrant the implementation of contingency measures.

If a performance standard is not met for all or any portion of the CSS creation site in any year, or if the final performance standards are not met, the Restoration Specialist will prepare an analysis of the cause(s) of failure, and propose remedial action for approval. These measures may include supplemental site grading, additional planting/seeding, adjustment of the management activities, or other design changes.

9.2 FUNDING MECHANISM

The land owner shall be responsible for all costs associated with any remedial measures during the 5-year maintenance and monitoring period.

9.3 RESPONSIBLE PARTIES

The land owner shall be the responsible party for any remedial measures during the 5-year maintenance and monitoring period.

10.0 REFERENCES CITED

Alden. 2018. Biological Technical Report for the Lumina Tentative Map Project. November.

Sawyer J. O. and T. Keeler- Wolf 1995. *A Manual of California Vegetation.* California Native Plant Society.

A CULTURAL RESOURCES STUDY FOR THE LUMINA PROJECT

Tentative Map Number 1972222
CITY OF SAN DIEGO

APNs 646-100-17, -18, -20, -21, -38, -71, and -76;
646-093-07, -09, -10, -11, and -12

PTS No. 555609

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Lead Agency Identifier:	PTS No. 555609
Assessor's Parcel Numbers:	646-100-17, -18, -20, -21, -38, -71, and -76; 646-093-07, -09, -10, -11, and -12
USGS Quadrangle:	*Otay Mesa, California* (7.5 minute)
Study Area:	93.43 acres
Key Words:	USGS *Otay Mesa* Quadrangle (7.5 minute); archaeological survey and testing program; City of San Diego; 93.43 acres; prehistoric lithic scatter (SDI-7208, SDI-10,963 Loci 1 through

5, SDI-14,094, and SDI-22,261); prehistoric isolates (P-37-037030, P-37-037031, P-37-037032, P-37-037033, P-37-037034, and P-37-037035); historic refuse (SDI-10,963 Locus 1); not CEQA-significant; MMRP recommended.

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1.0 MANAGEMENT SUMMARY/ABSTRACT

This report describes an archaeological assessment conducted by Brian F. Smith and Associates, Inc. (BFSA) for cultural resources located within Tentative Map Number 1972222, northwest of the intersection of Siempre Viva Road and Cactus Road in the Otay Mesa community of the city of San Diego, California. The applicant is proposing to subdivide 12 parcels, which collectively cover 93.43 acres, for the development of multi-family residential units, commercial and residential mixed-use areas, recreational parks, a school/recreation facility site, and open space in conformance with the Central Village Specific Plan (CVSP). In addition, 6.1 acres of off-site improvements are proposed along Cactus Road, adjacent to the Area of Potential Effect (APE), and along a portion of Airway Road between Cactus Road and Britannia Boulevard. Off-site work generally consists of road widening and street improvements (see Figure 2.0–4). As the project is located within a culturally sensitive area, the City of San Diego required a cultural resource investigation to determine the status of any cultural resources within the APE. As part of assessing the potential to encounter archaeological deposits within the property during construction, an archaeological survey and subsequent subsurface test excavations were conducted by BFSA as part of the environmental review of the permit application.

A review of the records search provided by the South Coastal Information Center (SCIC) at San Diego State University (SDSU) indicated that three previously recorded sites are located within the boundaries of the Lumina Project APE (SDI-7208, SDI-10,963, and SDI-14,094). The sites are part of a grouping of lithic scatters commonly found throughout the Otay Mesa region. These lithic scatters are known collectively as the "Otay Smear," which is characterized as an extensive low density surface lithic scatter primarily consisting of cores and debitage and occasionally a few lithic tools (Gallegos et al. 1998).

An archaeological survey of the property was conducted on December 5, 2017 to locate any previously recorded archaeological sites, as well as to search for any unrecorded resources within the APE. The survey resulted in the identification of four historic structures, six isolated prehistoric artifacts, five loci of Site SDI-10,963, one new archaeological site (SDI-22,261), and relocated SDI-14,094. Although mapped within the offsite improvements, no elements of SDI-7208 were identified during the study.

In order to accurately evaluate the archaeological sites and to assess the project's potential impacts to these resources, BFSA conducted a Phase II testing and evaluation study from January 22 through 25, 2018. The goal of the testing program was to formally record each site or locus, determine if any of the sites or loci are significant based upon archaeological data, and if that is the case, determine what mitigation measures are needed to reduce the level of impacts associated with the proposed development. The Phase II study included the collection of surface artifacts, the completion of subsurface investigations, and significance evaluations. In addition to six isolated prehistoric artifacts, prehistoric surface artifacts were collected from SDI-

10,963 (Loci 1 through 5), SDI-22,261, and SDI-14,094. In addition to the prehistoric artifacts observed on the ground surface, historic refuse was also collected from Site SDI-10,963 Locus 1. Subsurface testing for cultural deposits consisted of 53 shovel test pits (STPs) excavated across the APE. Due to the recovery of historic artifacts from shovel tests at Site SDI-10,963 Locus 1, a one-square-meter test unit was excavated within the core of the deposit of historic materials. Site SDI-7208 could not be relocated within the current project, is mapped only within the highly-disturbed road right-of-way, and has been previously evaluated as not significant under the California Environmental Quality Act (CEQA); therefore, no testing occurred for the site. A Native American representative from Red Tail Monitoring & Research, Inc. was present for all field investigations.

Based on the archaeological investigations of the cultural resources within the Lumina Project, SDI-14,094, SDI-22,261, and the portion of SDI-10,963 within the APE lacks archaeological significance as defined by CEQA and the City of San Diego environmental guidelines. The prehistoric sites located within the APE do not represent the level of focused activity that would correspond to a prehistoric occupation site. Instead, the prehistoric sites are classified as lithic scatters with no subsurface component with reduced integrity due to use of the land. The historic trash deposit at Site SDI-10,963 Locus 1 is a common example of a mid-twentieth century rural trash deposit. The sites located within the Lumina Project possess no residual research potential following the data collection efforts during the testing program and are evaluated as not CEQA-significant. No site-specific mitigation measures are recommended; however, due to the presence of both historic and prehistoric sites on the property, monitoring of grading is recommended due to the potential to encounter additional cultural resources that were not visible during the field investigations. The results of the BFSA study correlate to other studies of this property (Guerrero at el. 2005) that determined no significant resources existed within the subject property.

2.0 UNDERTAKING INFORMATION/INTRODUCTION

The Lumina Project is located northwest of the intersection of Siempre Viva Road and Cactus Road in the Otay Mesa community of the city of San Diego, California as shown on the *Otay Mesa*, *California* USGS 7.5-minute topographic quadrangle, in Township 18 South, Range 1 West of the San Bernardino Base and Meridian (Figures 2.0–1 and 2.0–2). The project is identified as Tentative Map Number 1972222 and includes Assessor's Parcel Numbers (APNs) 646-100-17, -18, -20, -21, -38, -71, and -76, and 646-093-07, -09, -10, -11, and -12. The applicant is proposing to subdivide the 12 parcels, which collectively cover 93.43 acres, for the development of multi-family residential units, commercial and residential mixed-use areas, recreational parks, a school/recreation facility site, and open space in conformance with the CVSP. In addition, 6.1 acres of off-site improvements are proposed along Cactus Road, adjacent to the APE, and along a portion of Airway Road between Cactus Road and Britannia Boulevard. Off-site work generally consists of road widening and street improvements (Figure 2.0–4). The location of the project is depicted on a portion of the 800-foot-scale City Engineering Map in Figure 2.0–3.

BFSA was retained to evaluate potential impacts to cultural resources from the proposed development. The archaeological assessment and impact evaluation for the Lumina Project was conducted in conformance with CEQA, Section 15064.5, and the City of San Diego guidelines for the treatment of cultural resources (amended September 7, 2001), including the Management Plan for Otay Mesa Prehistoric Resources (Gallegos et al. 1998). The archaeological program for the Lumina Project consisted of an institutional records search, an intensive pedestrian survey of the 93.43-acre property by qualified archaeologists, and a testing and evaluation program for resources identified within the APE.

The records search for this project indicated that previously recorded archaeological Sites SDI-7208, SDI-10,963, and SDI-14,094 are located within the boundaries of the project. The sites are part of a pattern of lithic scatters found throughout the Otay Mesa region. These lithic scatters are known collectively as the "Otay Smear," which is characterized as a sparse scatter of lithic artifacts across Otay Mesa primarily consisting of cores and debitage and occasionally a few lithic tools (Gallegos et al. 1998).

BFSA also requested a records search of the Sacred Lands File (SLF) of the Native American Heritage Commission (NAHC), which did not indicate the presence of any sacred sites or locations of religious or ceremonial importance within the search radius. In accordance with the recommendations of the NAHC, BFSA contacted all Native American parties listed in the NAHC response letter and received three responses. One response from the Viejas Band of Kumeyaay Indians stated that the project area has ties to the Kuneyaay Nation. A response from the Jamul Indian Villiage of California stated that the Otay Mesa region is a huge lithic scatter, while the San Pasqual Band of Mission Indians indicated that the project is located beyond the boundaries of their traditional use area but requested to be notified of any major project updates.

BFSA conducted the preliminary survey of the subject property on December 5, 2017 which resulted in the identification of four historic structures, six isolated prehistoric artifacts, five loci of Site SDI-10,963, one new archaeological site (SDI-22,261), and relocated SDI-14,094. The property was revisited from January 22 through 25, 2018 to conduct a testing and evaluation program, which included the excavation of 53 STPs and a single test unit within the APE. Although mapped within the offsite improvements, no elements of SDI-7208 were identified during the study. Site SDI-7208 could not be relocated within the current project, has been previously evaluated as not CEQA significant, and is mapped only within the highly-disturbed road right-of-way; therefore, no testing occurred within off-site improvement corridor. A Native American monitor from Red Tail Monitoring & Research, Inc. was present for all archaeological investigations. All cultural resources were recorded according to the Office of Historic Preservation's manual, Instructions for Recording Historical Resources using Department of Parks and Recreation (DPR) forms.

All aspects of the project were directed by Consulting Archaeologist and Principal Investigator Brian F. Smith. Project Archaeologist Andrew Garrison, senior field archaeologist Clarence Hoff, and field archaeologists Stephen Anderson, Jason Griffin, and Sabrina Corcoran completed the field investigations. Red Tail Monitoring & Research, Inc. provided Native American monitoring and consultation. Jillian Hahnlen conducted the laboratory analysis and data entry. Caitlin Foote completed report editing and production. A copy of this evaluation report will be submitted to the SCIC at SDSU.

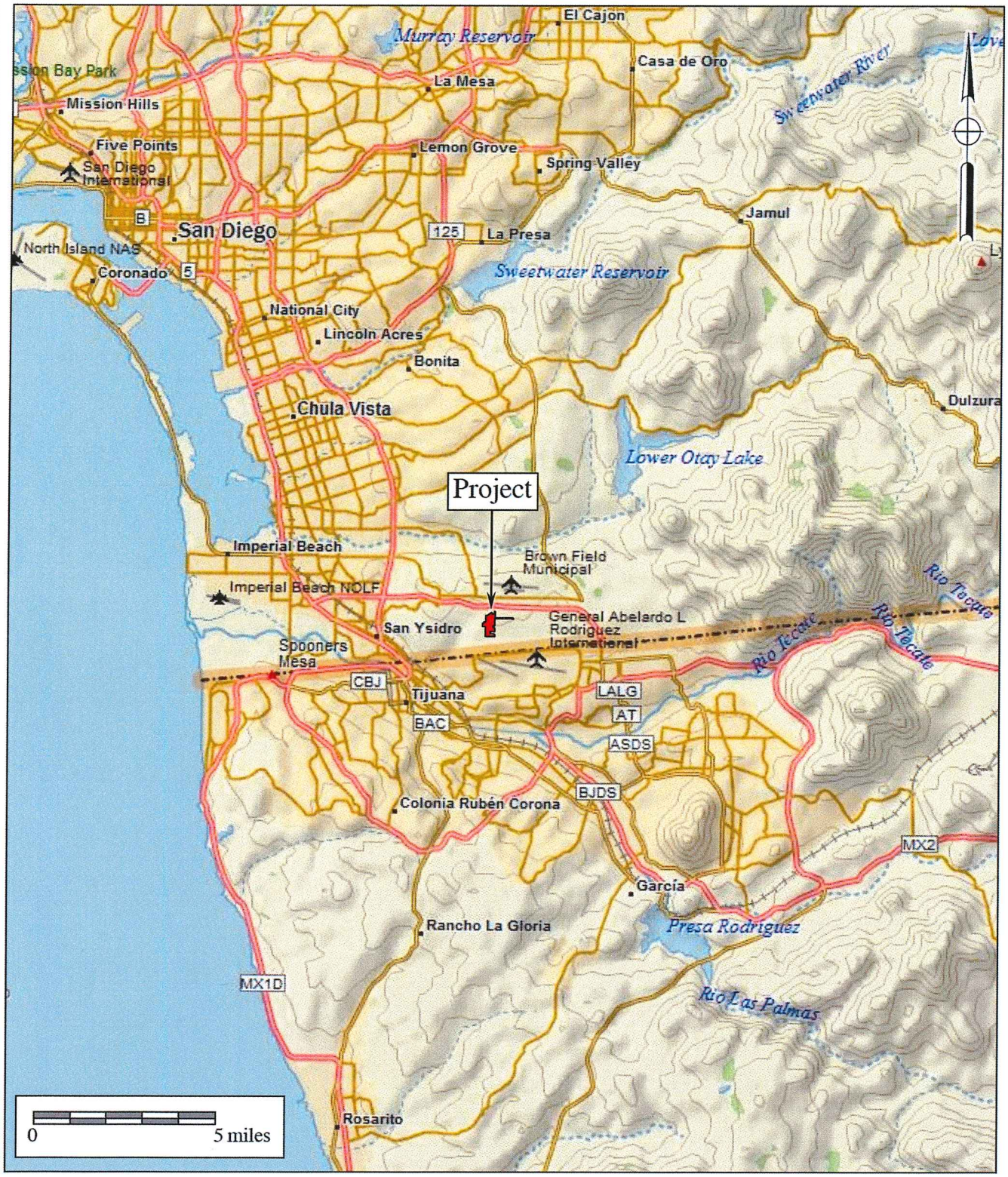


Figure 2.0–1

General Location Map

The Lumina Project

DeLorme (1:250,000)

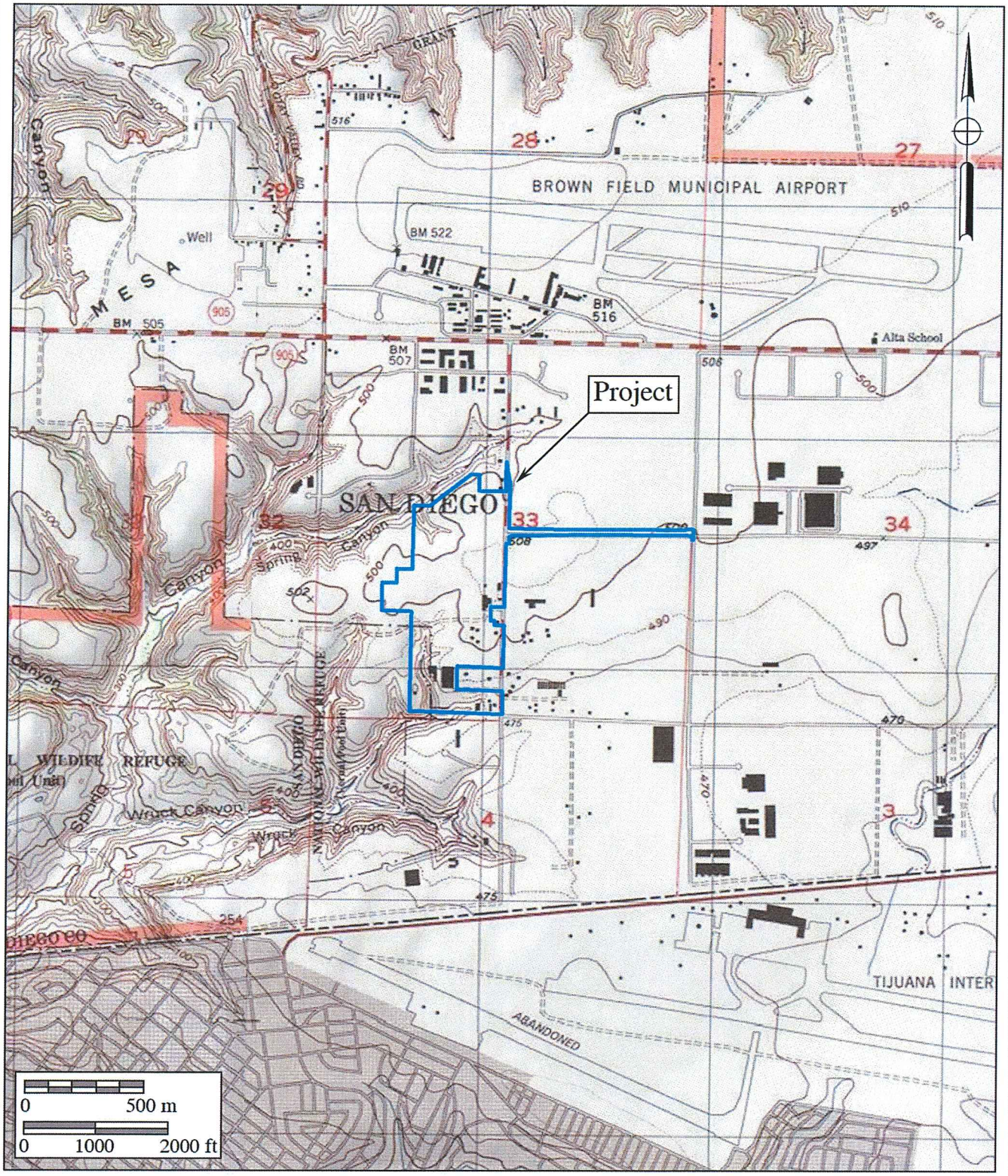


Figure 2.0–2

Project Location Map

The Lumina Project

USGS *Imperial Beach* and *Otay Mesa* Quadrangles (7.5-minute series)

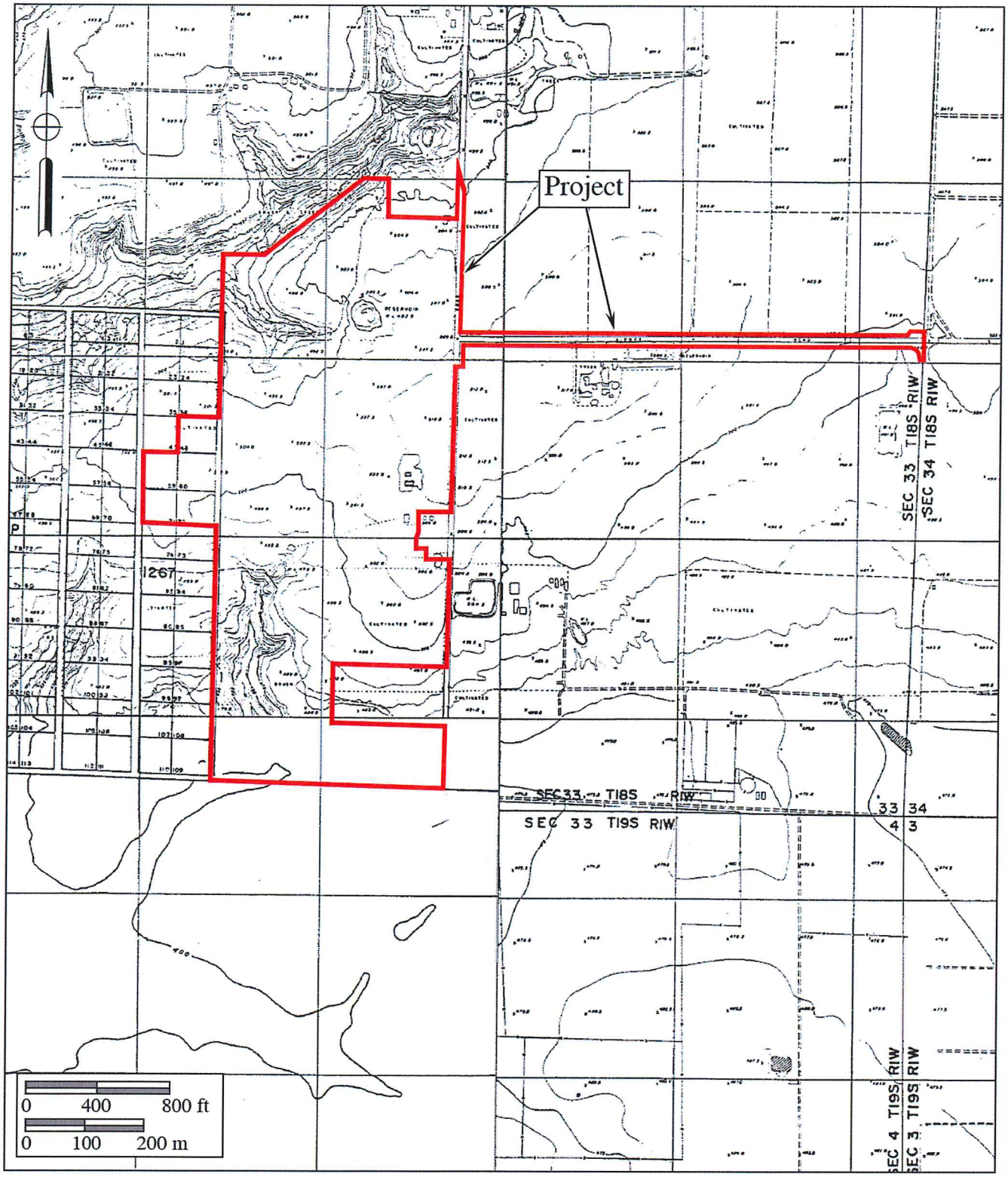


Figure 2.0–3

Project Location Map

The Lumina Project

Shown on The City of San Diego 1" to 800' Scale Engineering Map

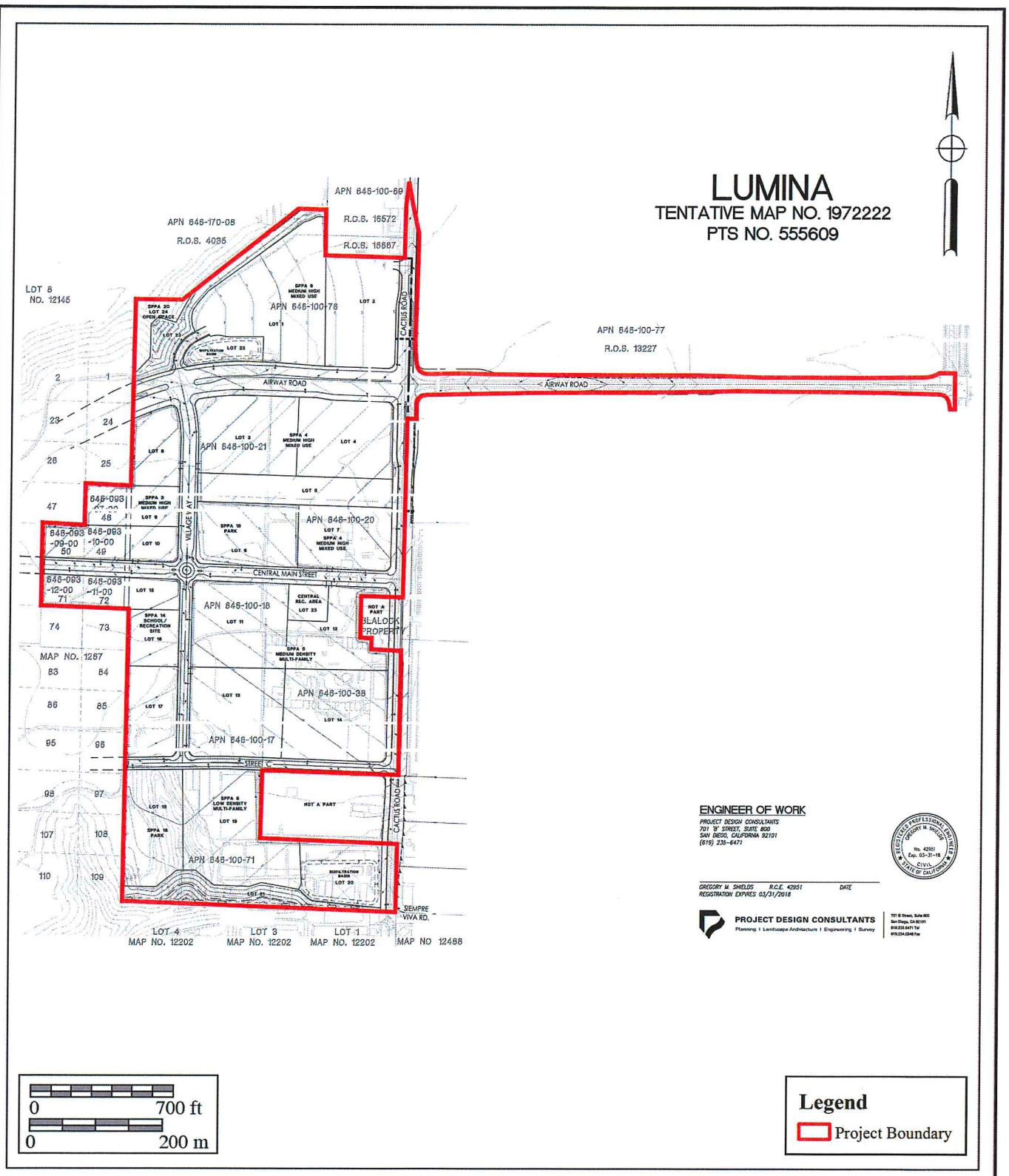


Figure 2.0–4

Project Development Map

The Lumina Project

3.0 ENVIRONMENTAL SETTING

The project setting includes both physical and biological contexts of the proposed project, as well as the cultural setting of prehistoric and historic human activities in the general area. The following section discusses both the environmental and cultural settings of the study area, the relationship between the two, and the relevance of that relationship to the project.

3.1 Natural Setting

The subject property is located within the Otay Mesa community of San Diego, northwest of the intersection of Siempre Viva Road and Cactus Road within the CVSP area. The APE consists of a relatively flat upper mesa overlooking canyons to the northwest and southwest. Spring Canyon is situated along the northwestern boundary of the project, while an offshoot of Wruck Canyon is located within the southwestern corner of the project. Elevations range from approximately 510 to 500 feet above mean sea level (AMSL) on the upper mesa, while elevations along the canyon slopes and within the canyons range between approximately 470 and 430 feet AMSL. Generally, soils within the APE are labeled as Stockpen gravelly clay loam, zero to two percent slopes, although the areas in the northwest and southwest overlooking Spring and Wruck canyons are characterized as Olivenhain cobbly loam, 30 to 50 percent slopes.

The project is generally situated in a transitional region between the relatively level Otay Mesa and the rolling hills and gentle slopes at the base of the San Ysidro Mountains to the north and east. This geologic area consists of a series of knolls and mesas that are interrupted by small canyons and drainages located in the Coastal Plains Physiographic Province. Much of this area is composed of Pleistocene and Upper Pliocene marine deposits, currently known as the Lindavista, Sweitzer, and San Diego formations (Biehler 1979). The San Diego Formation is composed of gray friable sandstone and conglomerate and the Lindavista and Sweitzer formations mantle the majority of the mesa tops. Following the deposition of the San Diego Formation, the Lindavista and Sweitzer formations consist of nearshore marine and nonmarine sediments deposited on a wave-cut terrace. The Lindavista Formation is composed of moderate, reddish-brown, interbedded sandstone and conglomerate, and the Sweitzer Formation is composed of brown, reddish-brown, and red poorly sorted sandstone and conglomerate.

The Otay River Valley, located north of the APE, the major canyon bisecting Otay Mesa from east to west, is composed of Quaternary, nonmarine terrace deposits and recent alluvium derived from rocks in the area. The juncture of the coastal plain and foothill provinces to the east is comprised of Plio-Pleistocene, nonmarine deposits, which typically consist of angular metavolcanic detritus. The hills to the north and east of the project are comprised of Jurassic volcanics, a collection of mildly metamorphosed volcanic and volcaniclastic rock formations characterized by the Black Mountain or Santiago Peak Volcanics (Biehler 1979). Santiago Peak Volcanics are represented throughout this area of San Diego County by outcrops of basalt and fine-grained green metavolcanics known locally as felsite.

The biological setting of the project area is dominated by an agricultural vegetative community, which primarily consists of introduced grasses with scant areas of native coastal sage scrub adjacent to drainages. These communities are dependent upon the amount of precipitation that the area receives. The amount of seasonal precipitation is related to the major landforms that exist throughout San Diego County. These environments tend to support a wide variety of wildlife, particularly birds and small mammals (Beauchamp 1986).

3.2 Cultural Setting

The cultures that have been identified in the general vicinity of the project consist of a possible Paleo Indian manifestation of the San Dieguito Complex, the Archaic and Early Milling Stone horizons represented by the La Jolla Complex, and the Late Prehistoric Kumeyaay culture. The area was used for ranching and farming following the Hispanic intrusion into the region, which continued through the historic period. A brief discussion of the cultural elements in the project area is provided below.

3.2.1 Paleoenvironment

Because of the close relationship between prehistoric settlement and subsistence patterns and the environment, it is necessary to understand the setting in which these systems operated. At the end of the final period of glaciation, approximately 11,000 to 10,000 years before the present (YBP), the sea level was considerably lower than it is now; the coastline at that time would have been between approximately two and a half miles west of its present location (Smith and Moriarty 1985a). At approximately 7,000 YBP, the sea level rose rapidly, filling in many coastal canyons that had been dry during the glacial period. The period between 7,000 and 4,000 YBP was characterized by conditions that were drier and warmer than they were previously, followed by a cooler, moister environment (Robbins-Wade 1990). Changes in sea level and coastal topography are often manifested in archaeological sites through the types of shellfish that were utilized by prehistoric groups. Different species of shellfish prefer certain types of environments, and dated sites that contain shellfish remains reflect the setting that was exploited by the prehistoric occupants.

Unfortunately, pollen studies have not been conducted for this section of San Diego; however, studies in other areas of southern California, such as Santa Barbara, indicate that the coastal plains supported a pine forest between approximately 12,000 and 8,000 YBP (Robbins-Wade 1990). After 8,000 YBP, this environment was replaced by more open habitats, which supported oak and non-arboreal communities. The coastal sage scrub and chaparral environments of today appear to have become dominant after 2,200 YBP (Robbins-Wade 1990).

3.2.2 Prehistory

In general, the prehistoric record of San Diego County has been documented in many reports and studies, several of which represent the earliest scientific works concerning the

recognition and interpretation of the archaeological manifestations present in this region. Geographer Malcolm Rogers initiated the recordation of sites in the area during the 1920s and 1930s, using his field notes to construct the first cultural sequences based upon artifact assemblages and stratigraphy (Rogers 1966). Subsequent scholars expanded the information gathered by Rogers and offered more academic interpretations of the prehistoric record. Moriarty (1966, 1967, 1969), Warren (1964, 1966), and True (1958, 1966) all produced seminal works that critically defined the various prehistoric cultural phenomena present in this region (Moratto 1984). Additional studies have sought to refine these earlier works to a greater extent (Cardenas 1986; Moratto 1984; Moriarty 1966, 1967; True 1970, 1980, 1986; True and Beemer 1982; True and Pankey 1985; Waugh 1986). In sharp contrast, the current trend in San Diego prehistory has also resulted in a revisionist group that rejects the established cultural historical sequence for San Diego. This revisionist group (Warren et al. 1998) has replaced the concepts of La Jolla, San Dieguito, and all of their other manifestations with an extensive, all-encompassing, chronologically undifferentiated cultural unit that ranges from the initial occupation of southern California to around A.D. 1000 (Bull 1983, 1987; Ezell 1983, 1987; Gallegos 1987; Kyle et al. 1990; Stropes 2007). For the present study, the prehistory of the region is divided into four major periods: Early Man, Paleo Indian, Early Archaic, and Late Prehistoric.

Early Man Period (Prior to 8500 B.C.)

At the present time, there has been no concrete archaeological evidence to support the occupation of San Diego County prior to 10,500 YBP. Some archaeologists, such as Carter (1957, 1980) and Minshall (1976), have been proponents of Native American occupation of the region as early as 100,000 YBP. However, their evidence for such claims is sparse at best and they have lost much support over the years as more precise dating techniques have become available for skeletal remains thought to represent early man in San Diego. In addition, many of the "artifacts" initially identified as products of early man in the region have since been rejected as natural products of geologic activity. Some of the local proposed Early Man Period sites include Texas Street, Mission Valley (San Diego River Valley), Del Mar, La Jolla, Buchanan Canyon, and Brown (Bada et al. 1974; Carter 1957, 1980; Minshall 1976, 1989; Moriarty and Minshall 1972; Reeves 1985; Reeves et al. 1986).

Paleo Indian Period (8500 to 6000 B.C.)

For the region, it is generally accepted that the earliest identifiable culture in the archaeological record is represented by the material remains of the Paleo Indian Period San Dieguito Complex. The San Dieguito Complex was thought to represent the remains of a group of people who occupied sites in this region between 10,500 and 8,000 YBP, and who were related to or contemporaneous with groups in the Great Basin. As of yet, no absolute dates have been forthcoming to support the great age attributed to this cultural phenomenon. The artifacts recovered from San Dieguito Complex sites duplicate the typology attributed to the Western

Pluvial Lakes Tradition (Moratto 1984; Davis et al. 1969). These artifacts generally include scrapers, choppers, large bifaces, large projectile points, and few milling tools. Tools recovered from San Dieguito Complex sites, along with the general pattern of their site locations, led early researchers to believe that the people of the San Dieguito Complex were a wandering hunter/gatherer society (Moriarty 1969; Rogers 1966).

The San Dieguito Complex is the least understood of the cultures that have inhabited the San Diego County region. This is due to an overall lack of stratigraphic information and/or datable materials recovered from sites identified as the San Dieguito Complex. Currently, controversy exists among researchers regarding the relationship of the San Dieguito Complex and the subsequent cultural manifestation in the area, the La Jolla Complex. Although, firm evidence has not been recovered to indicate whether the San Dieguito Complex "evolved" into the La Jolla Complex, the people of the La Jolla Complex moved into the area and assimilated with the people of the San Dieguito Complex, or the people of the San Dieguito Complex retreated from the area due to environmental or cultural pressures.

Early Archaic Period (6000 B.C. to A.D. 0)

Based upon evidence suggesting climatic shifts and archaeologically observable changes in subsistence strategies, a new cultural pattern is believed to have emerged in the San Diego region around 6000 B.C. Archaeologists believe that this Archaic Period evolved from or replaced the San Dieguito Complex culture, resulting in a pattern referred to as the Encinitas Tradition. In San Diego, the Encinitas Tradition is thought to be represented by the coastal La Jolla Complex and its inland manifestation, the Pauma Complex. The La Jolla Complex is best recognized for its pattern of shell middens, grinding tools closely associated with marine resources, and flexed burials (Shumway et al. 1961; Smith and Moriarty 1985a). Increasing numbers of inland sites have been identified as dating to the Archaic Period, focusing upon terrestrial subsistence (Cardenas 1986; Smith 1996; Raven-Jennings and Smith 1999a, 1999b).

The tool typology of the La Jolla Complex displays a wide range of sophistication in the lithic manufacturing techniques used to create the tools found at their sites. Scrapers, the dominant flaked tool type, were created by either splitting cobbles or by finely flaking quarried material. Evidence suggests that after about 8,200 YBP, milling tools began to appear at La Jolla Complex sites. Inland sites of the Encinitas Tradition (Pauma Complex) exhibit a reduced quantity of marine-related food refuse and contain large quantities of milling tools and food bone. The lithic tool assemblage shifts slightly to encompass the procurement and processing of terrestrial resources, suggesting seasonal migration from the coast to the inland valleys (Smith 1996). At the present time, the transition from the Archaic Period to the Late Prehistoric Period is not well understood. Many questions remain concerning cultural transformation between periods, possibilities of ethnic replacement, and/or a possible hiatus from the western portion of the county.

Late Prehistoric Period (A.D. 0 to 1769)

The transition into the Late Prehistoric Period in the project area is primarily represented by a marked change in archaeological patterning known as the Yuman Tradition. This tradition is primarily represented by the Cuyamaca Complex, which is believed to be derived from the mountains of southern San Diego County. The people of the Cuyamaca Complex are considered ancestral to the ethnohistoric Kumeyaay (Diegueño). Although several archaeologists consider the local Native American tribes to be latecomers, the traditional oral stories and histories passed down by the local Native American groups speak both presently and ethnographically to tribal presence in the region since the time of creation.

The Kumeyaay Native Americans were a seasonal hunting and gathering people with cultural elements that were very distinct from the people of the La Jolla Complex. Noted variations in material culture include cremation, the use of the bow and arrow, and adaptation to use of the acorn as a main food staple (Moratto 1984). Along the coast, the Kumeyaay made use of marine resources by fishing and collecting shellfish for food. Game and seasonally available plant food resources (including acorns) were sources of nourishment for the Kumeyaay. By far, though, the most important food resource for these people was the acorn. The acorn represented a storable surplus, which in turn allowed for seasonal sedentism and its attendant expansion of social phenomena.

Firm evidence has not been recovered to indicate whether the people of the La Jolla Complex were present when the Kumeyaay Native Americans migrated into the coastal zone. However, stratigraphic information recovered from Site SDI-4609 in Sorrento Valley suggests a possible hiatus of 650 ± 100 years between the occupation of the coastal area by the La Jolla Complex (1,730 ± 75 YBP is the youngest date for the La Jolla Complex inhabitants at SDI-4609) and Late Prehistoric cultures (Smith and Moriarty 1983). More recently, a reevaluation of two prone burials at the Spindrift Site excavated by Moriarty (1965) and radiocarbon dates of a pre-ceramic phase of Yuman occupation near Santee suggest a commingling of the latest La Jolla Complex inhabitants and the earliest Yuman inhabitants about 2,000 YBP (Kyle and Gallegos 1993).

3.2.3 History

Exploration Period (1530 to 1769)

The historic period around San Diego Bay began with the landing of Juan Rodriguez Cabrillo and his men in 1542 (Chapman 1925). Sixty years after the Cabrillo expeditions (1602 to 1603), an expedition under Sebastian Vizcaíno made an extensive and thorough exploration of the Pacific coast. Although the voyage did not extend beyond the northern limits of the Cabrillo track, Vizcaíno had the most lasting effect on the nomenclature of the coast. Many of the names he gave to places have survived, whereas nearly all of Cabrillo's have faded from use. Cabrillo gave the name of "San Miguel" to the first port where he stopped in what is now the United States; 60 years later, Vizcaíno changed the name to "San Diego" (Rolle 1969).

Spanish Colonial Period (1769 to 1821)

The Spanish occupation of the claimed territory of Alta California took place during the reign of King Carlos III of Spain (Engelhardt 1920). A powerful representative of the king in Mexico, Jose de Gálvez, conceived the plan to colonize Alta California and thereby secure the area for the Spanish crown (Rolle 1969). The effort involved both a military and religious contingent, where the overall intent of establishing forts and missions was to gain control of the land and the native inhabitants through conversion. Actual colonization of the San Diego area began on July 16, 1769 when the first Spanish exploring party, commanded by Gaspar de Portolá (with Father Junípero Serra in charge of religious conversion of the native populations), arrived by the overland route to San Diego to secure California for the Spanish crown (Palou 1926). The natural attraction of the harbor at San Diego and the establishment of a military presence in the area solidified the importance of San Diego to the Spanish colonization of the region and the growth of the civilian population. Missions were constructed from San Diego to as far north as San Francisco. The mission locations were based upon a number of important territorial, military, and religious considerations. Grants of land were made to persons who applied, but many tracts reverted back to the government for lack of use. As an extension of territorial control by the Spanish empire, each mission was placed so as to command as much territory and as large a population as possible. While primary access to California during the Spanish Period was by sea, the route of El Camino Real served as the land route for transportation, commercial, and military activities within the colony. This route was considered to be the most direct path between the missions (Rolle 1969; Caughey 1970). As increasing numbers of Spanish and Mexican peoples, as well as the later Americans during the Gold Rush, settled in the area, the Native American populations diminished as they were displaced or decimated by disease (Carrico and Taylor 1983).

Mexican Period (1821 to 1846)

On September 16, 1810, the priest Father Miguel Hidalgo y Costilla started a revolt against Spanish rule. He and his untrained Native American followers fought against the Spanish, but his revolt was unsuccessful and Father Hidalgo was executed. After this setback, Father José Morelos led the revolutionaries, and he too failed and was executed. These two men are still symbols of Mexican liberty and patriotism. After the Mexican-born Spanish and the Catholic Church joined the revolution, Spain was finally defeated in 1821. Mexican Independence Day is celebrated on September 16th of each year, signifying the anniversary of the start of Father Hidalgo's revolt. The revolution had repercussions in the northern territories, and by 1834, all of the mission lands had been removed from the control of the Franciscan Order under the Acts of Secularization. Without proper maintenance, the missions quickly began to disintegrate, and after 1836, missionaries ceased to make regular visits inland to minister the needs of the Native Americans (Engelhardt 1920). Large tracts of land continued to be granted to persons who applied for them or who had gained favor with the Mexican government. Grants

of land were also made to settle government debts and the Mexican government was called upon to reaffirm some older Spanish land grants shortly before the Mexican-American War of 1846 (Moyer 1969).

Anglo-American Period (1846 to Present)

California was invaded by United States troops during the Mexican-American War of 1846 to 1848. The acquisition of strategic Pacific ports and California land was one of the principal objectives of the war (Price 1967). At the time, the inhabitants of California were practically defenseless, and they quickly surrendered to the United States Navy in July of 1847 (Bancroft 1886).

The cattle ranchers of the "counties" of southern California had prospered during the cattle boom of the early 1850s. They were able to "reap windfall profit…pay taxes and lawyer's bills…and generally live according to custom" (Pitt 1966). Raising cattle soon declined, however, contributing to the expansion of agriculture. With the passage of the "No Fence Act," San Diego's economy shifted from stock raising to farming (Robinson 1948). The act allowed for the expansion of unfenced farms, which was crucial in an area where fencing material was practically unavailable. Five years after its passage, most of the arable lands in San Diego County had been patented as either ranchos or homesteads, and growing grain crops replaced raising cattle in many of the county's inland valleys (Blick 1976; Elliott 1883 [1965]).

By 1870, farmers had learned to dry farm and were coping with some of the peculiarities of San Diego County's climate (*San Diego Union,* February 6, 1868; Van Dyke 1886). Between 1869 and 1871, the amount of cultivated acreage in the county rose from less than 5,000 to more than 20,000 acres (*San Diego Union,* January 2, 1872). Of course, droughts continued to hinder the development of agriculture (Crouch 1915; *San Diego Union,* November 10, 1870; Shipek 1977). Large-scale farming in San Diego County was limited by a lack of water and the small size of arable valleys. The small urban population and poor roads also restricted commercial crop growing. Meanwhile, cattle continued to be grazed in parts of inland San Diego County. In the Otay Mesa area, for example, the "No Fence Act" had little effect on cattle farmers because ranches were spaced far apart and natural ridges kept the cattle out of nearby growing crops (Gordinier 1966).

During the first two decades of the twentieth century, the population of San Diego County continued to grow. The population of the inland part of the county declined during the 1890s, but between 1900 and 1910, it rose by about 70 percent. The pioneering efforts were over, the railroads had broken the relative isolation of southern California, and life in San Diego County became similar to other communities throughout the west. After World War I, the history of San Diego County was primarily determined by the growth of San Diego Bay. In 1919, the United States Navy decided to make the bay the home base for the Pacific Fleet (Pourade 1967), and during the 1920s, the aircraft industry followed suit (Heiges 1976). The establishment of these industries led to the growth of the county as a whole; however, most of

the civilian population growth occurred in the north county coastal areas, where the population almost tripled between 1920 and 1930. During this time period, the history of inland San Diego County was subsidiary to that of the city of San Diego, which had become a Navy center and industrial city (Heiges 1976). In inland San Diego County, agriculture became specialized, and recreational areas were established in the mountain and desert areas. Just before World War II, urbanization began to spread to the inland parts of the county.

3.3 Research Results

Background Research of Otay Mesa

Previous research has indicated that the majority of sites within the Otay Mesa area represent a repetitive pattern of location characteristics and artifact assemblages (Carrico et al. 1992; Smith 1995). Sites in the vicinity are generally located on elevations near drainages; larger, more diverse sites are located in areas of vegetation transition, while smaller sites are located in zones of single or limited biological resources. Over time, environmental changes during the Archaic Period likely had a significant impact on the subsistence pattern in the Otay Mesa area. Therefore, in inland areas of the coastal zone, such as Otay Mesa, the semi-arid climate resulted in a concentration of water and other resources in drainage areas, resulting in a drainage-oriented settlement pattern.

Since the Spanish intrusion into the region, Otay Mesa has been used for ranching and agriculture. After Mexican independence in the mid-nineteenth century, Rancho Otay (Estudillo) operated under one of the Mexican land grants. Other nearby land grants included Rancho Janal to the east and Rancho de La Nacíon to the north. After the United States annexed California, the "Homestead Act" and the "No Fence Act" drew additional Euro-American settlers to Otay Mesa (Gordinier 1966). Expected resources would include ranching, agricultural, homesteading, and farmstead material.

3.4 Records Search Results

Both prehistoric and historic sites have been recorded within one mile of the project. An archaeological records search for a one-mile radius around the project was conducted by the SCIC at SDSU, the results of which were reviewed by BFSA. The SCIC records search revealed that 85 resources have been recorded within one-mile of the project (Table 3.4–1). Three of the previously recorded sites are located within the boundaries of the Lumina Project APE (SDI-7208, SDI-10,963, and SDI-14,094). These sites are described below:

- Site SDI-7208 overlaps the offsite improvements associated with the project's planned widening of Airway Road, east of the main portions of the APE. Site SDI-7208 was originally recorded in 1979 by Darla Ferguson as a light lithic scatter. It has subsequently been revisited and the boundaries have been expanded by various archaeologists (Cheever and Davis 1988; Gallegos 1999;

Kyle et al. 1997; Robbins-Wade et al. 2001, 2008; Bowden-Renna 2011). The Robbins-Wade et al. 2001 site record expanded the site onto the northern quarter of the current APE. The SCIC maps do not show the extended boundary and subsequent studies have not included the extension within their depictions of the site. The site has been subject to previous testing (Cheever and Davis 1988) and construction monitoring (Affinis 2010) at numerous points within its boundaries. Testing and evaluation of the site has found it to be not eligible for listing in either the National Register of Historic Places (NRHP) or the California Register of Historical Resources (CRHR), and it is not considered a unique resource under City of San Diego guidelines.

- Similarly, SDI-10,963 is recorded as another sparse lithic scatter encompassing a large geographic area located primarily east of the APE and Cactus Road. Site SDI-10,963 was first recorded by Roth and Associates in 1988 (Roth 1988a). Roth and Associates tested the site with negative results. Gallegos and Associates surveyed the general area, including portions of the current APE, from 2003 to 2005. As a result, the site boundary of SDI-10,963 was extended west onto the current APE. The SCIC maps do not show the extended boundary of SDI-10,963; however, the site record for the resource indicates the new boundary would encompass much of the center of the Lumina project. Gallegos and Associates conducted limited archaeological testing within the extended boundary of SDI-10,963 with negative results
- Site SDI-14,094 is located within the northwest corner of the APE overlooking a seasonal drainage. The site was recorded in 1995 by Gallegos and Associates and consists of four lithic flakes and a lithic core (Tift and Briggs 1995). Site SDI-14,094 has never been tested or evaluated for significance.

The remaining 82 recorded resources include:

- four prehistoric temporary camps with associated lithic scatter
- two prehistoric temporary camps with bone, shell, and associated lithic scatter
- two prehistoric temporary camps with observable midden and various associated artifacts and features
- one prehistoric habitation site with observable midden and associated lithic and shell scatter
- one possible prehistoric habitation site with associated lithic scatter
- two prehistoric lithic and shell scatters
- 22 prehistoric lithic scatters
- two prehistoric lithic extraction sites
- 21 prehistoric lithic isolates
- one non-cultural shell scatter

- one historic trash deposit
- four historic locations recorded by their locations on historic maps
- the Brown Field Auxiliary Naval Air Station historic district
- 14 structures associated with the Brown Field Auxiliary Naval Air Station District
- remnants of the historic Brown Field Naval Air Station runways
- a segment of the historic Otay Mesa Road
- the historic Anderprises Reservoir; and
- a historic water pump associated with the Anderprises Reservoir

Table 3.4–1
Cultural Resources Located Within a
One-Mile Radius of the Lumina Project

Site	Description
SDI-9541, SDI-10,187, SDI-10,188, and SDI-10,189	Prehistoric temporary campsite with associated lithic scatter
SDI-10,190 and SDI-10,811	Prehistoric temporary campsite with bone, shell, and associated lithic scatter
SDI-10,185	Prehistoric temporary campsite with associated hearths and subsurface midden
SDI-10,619*	Prehistoric temporary campsite with associated lithic and shell scatter, midden soil, and lithic extraction area
SDI-11,424	Prehistoric habitation site with associated midden and lithic and shell scatter
SDI-10,621*	Possible prehistoric habitation site and lithic scatter
SDI-10,196 and SDI-20,228	Prehistoric lithic and shell scatter
SDI-6941, SDI-7208†, SDI-10,186, SDI-10,608, SDI-10,616, SDI-10,618, SDI-10,805, SDI-10,963†, SDI-11,080, SDI-11,423, SDI-11,680, SDI-14,082, SDI-14,083, SDI-14,084, SDI-14,090, SDI-14,092, SDI-14,093, SDI-14,094†, SDI-14,729, SDI-16,704, SDI-17,100, SDI-17,519, SDI-17,520, SDI-20,226, and SDI-20,231	Prehistoric lithic scatter
SDI-10,617 and SDI-10,620	Prehistoric lithic extraction site
P-37-014296, P-37-014299, P-37-014300, P-37-014301, P-37-014302, P-37-014303, P-37-014925, P-37-014926, P-37-014966, P-37-014967, P-37-014968, P-37-014969,	Prehistoric isolate (lithic)

Site	Description
P-37-014970, P-37-015023, P-37-031955, P-37-031956, P-37-031957, P-37-031958, P-37-031959, P-37-031960, and P-37-034480	
SDI-20,227	Shell scatter (determined non-cultural secondary deposit in 2016)
SDI-21,508	Historic trash deposit
P-37-015980, P-37-015982, and P-37-015987	Mapped location of historic farmstead
P-37-015988	Mapped location of historic St. John's Lutheran Church and associated cemetery
P-37-018246	Historic Brown Field Auxiliary Naval Air Station district
P-37-018248, P-37-018249, P-37-018250, P-37-018251, P-37-018252, P-37-018253, P-37-018254, P-37-018255, P-37-018256, P-37-018258, P-37-018259, P-37-018260, P-37-018261, and P-37-018257	Historic Brown Field Naval Air Station building(s)
P-37-031954	Historic Brown Field Naval Air Station runway
P-37-031491	Historic segment of Otay Mesa Road
SDI-21,440/H	Historic Anderprises Reservoir
SDI-21,441/H	Historic Anderprises pump

*Could not be relocated in 2003
† Mapped within the Lumina Project APE

In addition, the SCIC identified all previous archaeological investigations conducted within one-mile of the project (Table 3.4–2). In total, 96 cultural resource studies have been conducted within a one-mile radius of the APE. Fifteen of the previously conducted studies include portions of the Lumina Project (Hector 1986, 1988; Hector and Wade 1987; Gallegos 1999; Mason and Shepard 1999; Robbins-Wade 2003; Kyle et al. 1996; City of San Diego 2005, 2013a, 2013b; Guerrero and Gallegos 2005; Guerro et. al 2005; Wilson 2013; Tennesen 2013; Westwood and Blumel 2016).

Table 3.4–2

Previous Archaeological Investigations Conducted Within a One-Mile Radius of the Lumina Project

Bowden-Renna, Cheryl
2011 Letter Report: ETS 21839- Cultural Resources Monitoring of Pole Replacement Activities for Pole P89056, Otay Mesa Area, San Diego County, California- IO 7011102. AECOM.

Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Bray, Madeleine
2012 Metropolitan Airpark Off-Site Road Widening Supplemental Cultural Resources Survey. ESA Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Bray, Madeleine and Brad Brewster
2011 Final Cultural Resources Survey and Assessment for the Metropolitan Airpark Project, Otay Mesa, San Diego CA. ESA. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Brewster, Brad
2011 Metropolitan Airpark Project, Otay Mesa, San Diego, CA- Historic Resources Assessment. ESA. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Brunzell, David
2014 Cultural Resources Monitoring Results for AT&T Site SD0687, San Diego, San Diego County, California (BCR Consulting Job No. Ace1401). BCR Consulting. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Buysse, Johnna L., Maynard B. Cliff, and Floyd B Largent Jr.
1999 Cultural Resources Testing of Site CA-SDI-10808 and The Testing and Mitigation of Site CA-SDI-100809 In Spring Canyon, San Diego County, California. Johnna L. Buysse. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Carolyn, Kyle
2002 Cultural Resource Survey for the Las Californias Center Project City of San Diego, California. Kyle Consulting. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Carrico, Richard
1974 Archaeological Survey of the Proposed Otay Mesa International Border Crossing. Westec Services, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1982 Archaeological Survey of the United States Border Patrol Station Alternate Brown Field Site, San Diego, California. Westec Services, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Case, Robert P.
2003a Cultural Resources Survey of the Proposed Otay Mesa Southview Subdivision, City of San Diego, California. Mooney & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2003b Cultural Resources Survey of the Proposed Otay Mesa Southview Subdivision, City of San Diego, California. Mooney and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2005 Cultural Resources Survey of the Proposed Otay Mesa Southview Subdivision City of San Diego, California. Mooney & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Caterino, David
2005 The Cemeteries and Gravestones of San Diego County: An Archaeological Study. David Caterino. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Cheever, Dayle
1987 Test and Evaluation for Twelve Archaeological Sites within the Proposed Spring Canyon Development Otay Mesa Region, San Diego, California. Westec. Unpublished report on file at the SCIC at SDSU.

1999 (Results of A) Cultural Resource Phase I Survey of the Ostrow Property, Otay Mesa, City of San Diego. Dayle Cheever. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Cheever, Dayle and Mcmillan Davis
1988 Cultural Resource Survey and Test Excavations at the Pacific Business Park Otay Mesa, California. Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Cheever, Dayle M. and Dennis Gallegos
1987 Test and Evaluation for Twelve Archaeological Sites within the Proposed Spring Canyon Development Otay Mesa Region, San Diego, California. Westec Services, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

City of San Diego
1981 Draft Environmental Impact Report Brown Field Master Plan & Comprehensive Land Use Plan. City of San Diego. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1999a Draft - Comprehensive Land Use Plan for Brown Field, San Diego, California. City of San Diego. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1999b Public Notice of Proposed Mitigated Negative Declaration-Ostrow Property. City of San Diego. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2002 Public Notice of a Proposed Negative Declaration for Las Californias Center. Development Services Dept. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2005 Draft Environmental Impact Report for the Otay Mesa Trunk Sewer Project. City of San Diego. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2013a Draft Program Environmental Impact Report for the Otay Mesa Community Plan Update, City of San Diego Project Number 30330/304032. City of San Diego. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2013b Final Program Environmental Impact Report for the Otay Mesa Community Plan Update, City of San Diego. City of San Diego. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Clevenger, Joyce M. and Allan J. Schilz

1989 Archaeological Investigations of the La Salle Property, Otay Mesa, City of San Diego, California. ERC Environmental and Energy Services Company. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Connolly, Michael T.

2016 ETS #33668, Cultural Resources Survey for Metropolitan Airpark Relocation, Otay Mesa, San Diego County, California. Connolly, Michael T. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Cook, John and Drew Pallette

1994 Archaeological Testing and NR Eligibility For JTF-6 Border Lighting Project, Otay Mesa Border Lighting Project. Brian F. Mooney. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

ESA Associates

2012 Metropolitan Airpark Project. ESA Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Gallegos and Associates

2002 Cultural Resource Letter Report for the Handler Property, Otay Mesa, California. Gallegos and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Gallegos, Dennis

1990 Cultural Resource Survey for the Otay Mesa Parking Facility, San Diego, California (Dep No. 90-0866). Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1999 Historic Property Survey Report for the State Route 905. Gallegos and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Gallegos Dennis and Monica Guerrero

2001 Cultural Resources Technical Report for the Otay Mesa Generating Project - Gas Line Corridor San Diego, California. Gallegos and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Gallegos, Dennis, Carolyn Kyle, and Roxana L. Phillips
1997 Historic Property Survey Report, San Diego, California. Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Goralogia, Elena C. and Smith, Brian F.
2016 Cultural Resource Monitoring Report for the Continental Commerce Center Project City of San Diego Project No. 334882. Brian F. Smith and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Gross, Timothy
2003 Archaeological Resources Survey, Schmidt Britannia Parcel, Otay Mesa, San Diego, California. City of San Diego Planning and Development Review Department. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Guerrero, Monica and Dennis R. Gallegos
2003a Cultural Resource Survey for the San Diego Storage Trailers Project San Diego County, California. Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2003b Cultural Resource Survey for the San Diego Storage Trailers Project Otay Mesa, California. Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2005 Historical Resource Inventory for the Otay Mesa Trunk Sewer Project Otay Mesa, California. Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2006 Historical Resources Test Report for the Crown Enterprises, Inc. Parcel, Otay Mesa, California. Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Guerrero, Monica, Tracy Stropes, Stephen Van Wormer, Susan Walter, and Dennis R. Gallegos
2005 Historical Resources Report for the Spring Canyon Ranch Project Otay Mesa, California. Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Hector, Susan
1986 Archaeological Testing Program At SDI-7208 Brown Field Industrial Park, Otay Mesa City of San Diego, California. Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1984 Otay 82-Acre Archaeological Survey. Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1986a Pacific Scene Property Cultural Resources, SDI-10185 (SDM-W-3578) and SDI-10186 (SDM-W-3579) (Recon Number R-1584). Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1986b Archaeological Survey of Brown Field Industrial Park (Recon Number R-1612). Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1987a Results of Mitigation Program for Area Sites SDI-10621a & SDI 10,619 Otay Mesa International Business Center. Susan Hector. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1987b Cultural Resources for Otay Mesa Business Park (Recon No. R-1648a). Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1988 Archaeological Mitigation Program for Prehistoric Site SDI-10185 A and C Pacific Gateway, Otay Mesa. Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Hector, Susan M. and Sue A. Wade

1987 Archaeological Testing Program At SDI-10185, Loci A-C, and SDI-10186 Otay Mesa, City of San Diego California. Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Kidder, Fred W.

1984 Archaeological Survey of Two Sewerline Routes: Proposed Otay Mesa Prison Site, San Diego, California. CRM Center SDSU. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Kristin Tennesen

2013 ETS #24738.03, Cultural Resources Monitoring for the Intrusive Pole Inspections, Metro District, Sub-Areas Bord, Snys, Impe, Otay, Sbay, Hilt, Mont, Ssde, Linc Project, San Diego County, California (Hdr #207357). HDR. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2015 ETS #22164, Cultural Resources Monitoring for the C1202: San Ysidro, Install New 12 Kv Circuit Project, San Diego County, California. HDR. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Kyle, Carolyn

1998 Cultural Resource Survey for the Mission City Auto Auction Project, Otay Mesa Area. Kyle Consulting. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2002a Cultural Resource Survey for the Las Californias Center Project City of San Diego, California. Kyle Consulting. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2002b Cultural Resource Survey for the Las California Center Project City of San Diego, California. Kyle Consulting. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2003 Cultural Resource Survey for the Las Californias Center Project, City of San Diego, California. Kyle Consulting. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Kyle, Carolyn, Phillips, Roxana L., Schroth, Adella B., Ni Ghablain, Sinead, and Gallegos, Dennis R.
1996 Cultural Resources Survey and Testing Report for the Otay Mesa Road Widening Project. Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Latas, Timothy W. and Linda Roth
1991 Cultural Resources Survey Otay Mesa Road Pipeline Project (9500 Linear Feet) San Diego, CA USGS Otay Mesa 7.5 Minute Quadrangle. Timothy Latas. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Mason, Roger D. and Richard S. Shepard
1999 Cultural Resources Records Search & Survey Report for a Portion of the Cactus Road Site, Otay Mesa Area, San Diego County, California. Chambers Group, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Mason, Roger D. and Sander, Jay
2004 Cultural Resources Records Search and Survey Report for the South Otay Mesa Property, City of San Diego, San Diego County, California. Chambers Group Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Mooney, Brian F.
1994 Archaeological Testing and Nr Eligibility for JIF-G Border Lighting Project Otay Mesa. Brian F. Mooney. Brian F. Mooney Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Ni Ghabhlain, Sinead
2011 Negative Monitoring Report Geotechnical Investigation for Brown Field Airport SDM West Taxiway A, Otay Mesa, City of San Diego, California. ASM Affiliates, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Pierson, Larry J.
2002a Archaeological Survey and Evaluation of Resources for the RCP Block and Brick Otay Plant. Larry J. Pierson. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2002b An Archaeological and Evaluation of Resources for the RCP Block and Brick Otay Plant. Brian F. Smith and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Pigniolo, Andrew R., Kimberly D. Lauko, and Clinton J. Linton
2004 Cultural Resource Survey of The All Right Storage Project, Otay Mesa, City of San Diego, California Laguna Mountain Environmental, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Robbins-Wade, Mary

2003 Archaeological Resources Survey, Opus Britannia Parcel, Otay Mesa, San Diego, California. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2008a Martinez Ranch Business Park Lot 7. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2008b Archaeological Resources Survey, Britannia 40 Otay, Otay Mesa, San Diego, California. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2008c Archaeological Resources Analysis for the Master Stormwater System Maintenance Program, San Diego, California Project. No. 42891. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2008d IMS Recycling (Project No. 131765) - Archaeology (Affinis Job No. 2295). Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2009 Archaeological Resources Inventory: Martinez Ranch Outdoor Storage Project Otay Mesa, San Diego, California. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2010 Archaeological Monitoring for the Britannia 40 Otay Project, Otay Mesa, San Diego, California Project No.147108. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2011 Master Storm Water System Maintenance Program. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2014 Archaeological Resources Survey, Continental Commerce Center, Otay Mesa, San Diego, California Pts No. 334882. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Robbins-Wade, Mary and G. Timothy Gross

1990 Historic Properties Inventory for the Southeast Otay Mesa Sludge Processing Facilities and Pipeline (Southern Sludge Processing Facility to Southeast Otay Mesa Sludge Processing Facility) San Diego, California. Butler/Roach Group. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Robbins-Wade, Mary, Timothy Gross, and Sean Cardenas

1987 Cultural Resources Inventory and Assessment: California Terraces. Br & Associates Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Rosen, Martin

2010 Historic Property Survey Report for the Proposed Construction of Sr-11 and Otay Mesa Port of Entry Project. Caltrans. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Roth, Linda

1998b Archaeological Investigations at Mission City Auto Auction Property 17.5 Acres San Diego, California SDM-W-3922, CA-SDI-10,963. Roth and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Schiltz, Allan

1989 Archaeological and Historical Resources Survey Vehicle Barrier & Drainage Works United States - Mexico International Boundary Otay Mesa San Diego, California. ERC. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Shannon L. Loftus

2013 Cultural Resource Records Search and Site Survey AT&T Site Sd0686 Brown Field West 6180 Business Center Court San Diego, San Diego County, California 92154 CASPR# 3601626845. Ace Environmental. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Smith, Brian F.

1988a A Report of The Results of An Archaeological Survey and Cultural Resource Evaluation at The Robinhood Ridge Precise Plan. Brian F. Smith & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1988b A Report of The Results of An Archaeological Survey and Cultural Resource Evaluation at The Robinhood Ridge Precise Plan, Otay Mesa, City of San Diego, California. Brian F. Smith and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Smith, Brian F. and Johnna L. Buysse

2005 Archaeological Mitigation of Impacts to Prehistoric Site CA-SDI-16397 In Spring Canyon, San Diego County. Brian F. Smith & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Stropes, Tracy A. and Brian F. Smith

2012 A Phase I Cultural Resource Study for the Rowland Auto Dismantling Project. Brian F. Smith and Associates, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

U.S. Army Corps of Engineers

1997 Draft Environment Assessment Area Lighting, Fencing, and Roadways at International Border San Diego, CA. U.S. Army Corps of Engineers. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1998 Analysis of Additional Materials from Site CA-SDI-12259 of Immigration & Naturalization Service Border Road & Fence Construction Project in the Otay Mesa Region, San Diego, CA. U.S. Army Corps of Engineers. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

U.S. Department of Homeland Security

2011 U.S. Customs and Border Protection Remediation of Illicit Tunnel, OTM081211 Aka Edda Maria, at the U.S.-Mexico International Border in California. U.S. Department of Homeland

Security. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2012 U.S. Customs and Border Protection Remediation of CDL Tunnel at the U.S.-Mexico International Border in California. U.S. Department of Homeland Security. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

U.S. Department of The Interior

N.d. Brown Field Airport National WWII Historical District Buildings Evaluation Table. U.S. Dept. of The Interior. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Various

N.d. Misc. Papers on the Brown Field. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Wade, Sue A.

1986 Archaeological Investigations At SDI-10608 and the Alta School Site in Otay Mesa, California. Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1989 Archaeological Testing of Sites SDI-10,186 B and SDI-10,187 Otay Corporate Center, South San Diego, California. Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Wade, Sue A. and Susan M. Hector

1991 An Archaeological Indexing Program and Preservation Plan for Site SDI-10198, Otay Corporate Center, North Otay Mesa. Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Westec

1987 Research Design for Proposed Testing of Site CA-SDI-10809, Spring Canyon, San Diego County, California. Westec Services, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Westwood, Lisa and Blumel, Wendy

2016 Draft Cultural Resources Inventory Report for Improvements at Four Intersections: Metropolitan Airpark Project, San Diego County, California. Ecorp Consulting, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Whitaker, James E.

2011 Ets #21320, Cultural Resources Survey for the Remove from Service 5 Poles, Install 5 New Poles, Cactus Road, Otay Mesa, San Diego County, California. HDR. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Wilson, Stacie
2013 Letter Report: ETS 24376- Cultural Resources Monitoring Report for Repair Activities for Pole P191593, Otay Mesa Area of San Diego County, California- IO 7011102. AECOM. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Although 15 previous studies are mapped within the boundaries of the Lumina Project, most of the studies are large EIRs, highway or road widening studies, or mainly focused on properties adjacent to the current APE. These documents do not directly address the current subject property and provide limited information beyond archaeological site inventories within the general area. Nevertheless, three of the previous studies do directly address portions of the current APE.

Roger Mason and Richard Shepard surveyed a portion of the APE in 1999. The study included a records search and survey of the northern quarter of the upper mesa and Spring Canyon within the Lumina Project, as well as agricultural land to the north of the current APE. Mason and Shepard did not identify any resources within the Lumina Project APE (Mason and Shepard 1999).

Another study that directly addresses the subject property was conducted by Gallegos & Associates (Guerrero et al. 2005). The 2005 study consisted of a compilation of data collected through multiple phases of work conducted between 2003 and 2005. The Guerrero et al. study encompassed a much larger project area, known as the 169.7-acre Spring Canyon Ranch, that included the current APE. As part of the Spring Canyon Ranch Project, Guerrero et al. surveyed the southern three-quarters of the current APE identifying a sparse lithic scatter within the agricultural fields. As a result, Gallegos & Associates extended the site boundary of SDI-10,963 onto the Lumina Project property, conducted limited archaeological testing of the site, and monitored geotechnical trenching within the current APE. Guerrero et al. also collected and radiocarbon dated one piece of shell from the southwestern portion of SDI-10,963 (2005). The piece of shell dated to circa 1,000 years and was out of context when compared with the rest of the assemblage. Based on the one radiocarbon date, it was determined that undocumented fill had been placed within the southern portion of the site (Guerrero et al. 2005). As a result of the survey, testing, and monitoring on the property, Site SDI-10,963 was characterized as highly disturbed and classified as a temporary camp/artifact scatter site (Gallegos et al. 1998). Due to the lack of potential to provide any further research, the SDI-10,963 extension was evaluated as not significant under City of San Diego Historical Resources Regulations and CEQA criteria. Further, Guerrero et al. identified two structures on early maps of the area, and although older than 50 years, they were also found not to be significant.

The third study that directly addresses the property consisted of archaeological monitoring as part of a utility pole repair project (Wilson 2013). The project was conducted along the western edge of Cactus Road, within the recorded boundaries of SDI-7208, and just north of SDI-10,963. In relation to the Lumina Project, the study was conducted near the center

of the eastern boundary of the APE. During excavations, no artifacts were observed. The study also included a survey of a 30-meter buffer around the pole. The survey also did not identify any artifacts or features associated with either SDI-7208 or SDI-10,963.

The SCIC records search also identified five historic addresses within one-mile of the APE, none of which are located on the property. Furthermore, the SCIC reviewed the following additional historic sources:

- The National Register of Historic Places Index
- The Office of Historic Preservation, Archaeological Determinations of Eligibility
- The Office of Historic Preservation, Directory of Properties in the Historic Property Data File
- San Diego County 1872 map

These sources did not indicate the presence of any additional cultural resources within the project APE.

BFSA also requested a records search of the SLF of the NAHC, which did not indicate the presence of any sacred sites or locations of religious or ceremonial importance within the search radius. In accordance with the recommendations of the NAHC, BFSA contacted all Native American parties listed in the NAHC response letter and received three responses. One response from the Viejas Band of Kumeyaay Indians stated that the project area has ties to the Kuneyaay Nation. A response from the Jamul Indian Villiage of California stated that the Otay Mesa region is a huge lithic scatter, while the San Pasqual Band of Mission Indians indicated that the project is located beyond the boundaries of their traditional use area but requested to be notified of any major project updates.

3.5 Regulatory Setting

The cultural resources study for Lumina Project followed the appropriate local and state protocols and procedures for this type of study. Statutory requirements of CEQA and subsequent legislation (Section 15064.5), as well as the guidelines of the City of San Diego, would be followed in evaluating the significance of identified cultural resources. Specific definitions for archaeological resource type(s) used in this report are those established by the State Historic Preservation Office (SHPO 1995).

3.5.1 California Environmental Quality Act

According to CEQA, Section 15064.5(a), the term “historical resource” includes the following:

1) A resource listed in, or determined to be eligible by the State Historical Resources Commission for listing in, the California Register of Historical Resources (CRHR)

(Public Resources Code [PRC] SS5024.1, Title 14 CCR. Section 4850 et seq.).

2) A resource included in a local register of historical resources, as defined in Section 5020.1(k) of the PRC or identified as significant in an historical resource survey meeting the requirements of Section 5024.1(g) of the PRC, shall be presumed to be historically or culturally significant. Public agencies must treat any such resource as significant unless the preponderance of evidence demonstrates that it is not historically or culturally significant.
3) Any object, building, structure, site, area, place, record, or manuscript, which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California may be considered to be an historical resource, provided the lead agency's determination is supported by substantial evidence in light of the whole record. Generally, a resource shall be considered by the lead agency to be "historically significant" if the resource meets the criteria for listing on the CRHR (PRC SS5024.1, Title 14, Section 4852), including the following:

    a) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
    b) Is associated with the lives of persons important in our past;
    c) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
    d) Has yielded, or may be likely to yield, information important in prehistory or history.

4) The fact that a resource is not listed in, or determined eligible for listing in the CRHR, not included in a local register of historical resources (pursuant to Section 5020.1[k] of the PRC), or identified in an historical resources survey (meeting the criteria in Section 5024.1[g] of the PRC), does not preclude a lead agency from determining that the resource may be an historical resource as defined in PRC Section 5020.1(j) or 5024.1.

According to CEQA, Section 15064.5(b), a project with an effect that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. CEQA defines a substantial adverse change as:

1) Substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be

materially impaired.

2) The significance of an historical resource is materially impaired when a project:

    a) Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for inclusion in, the CRHR; or,
    b) Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the PRC or its identification in an historical resources survey meeting the requirements of Section 5024.1(g) of the PRC, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or,
    c) Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its eligibility for inclusion in the CRHR as determined by a lead agency for the purposes of CEQA.

Section 15064.5(c) of CEQA applies to effects on archaeological sites and contains the following additional provisions regarding archaeological sites:

1) When a project will impact an archaeological site, a lead agency shall first determine whether the site is an historical resource, as defined in Subsection (a).
2) If a lead agency determines that the archaeological site is an historical resource, it shall refer to the provisions of Section 21084.1 of the PRC, Section 15126.4 of the guidelines, and the limits contained in Section 21083.2 of the PRC do not apply.
3) If an archaeological site does not meet the criteria defined in Subsection (a), but does meet the definition of a unique archaeological resource in Section 21803.2 of the PRC, the site shall be treated in accordance with the provisions of Section 21083.2. The time and cost limitations described in PRC Section 21083.2(c-f) do not apply to surveys and site evaluation activities intended to determine whether the project location contains unique archaeological resources.
4) If an archaeological resource is neither a unique archaeological nor historical resource, the effects of the project on those resources shall not be considered a significant effect on the environment. It shall be sufficient that both the resource and the effect on it are noted in the Initial Study or Environmental Impact Report, if one is prepared to address impacts on other resources, but they need not be considered further in the CEQA process.

Section 15064.5(d) and (e) contain additional provisions regarding human remains. Regarding Native American human remains, Subsection (d) provides:

(d) When an initial study identifies the existence of, or the probable likelihood, of Native American human remains within the project, a lead agency shall work with the appropriate Native Americans as identified by the NAHC as provided in PRC SS5097.98. The applicant may develop an agreement for treating or disposing of, with appropriate dignity, the human remains and any items associated with Native American burials with the appropriate Native Americans as identified by the NAHC. Action implementing such an agreement is exempt from:

1) The general prohibition on disinterring, disturbing, or removing human remains from any location other than a dedicated cemetery (Health and Safety Code Section 7050.5).
2) The requirements of CEQA and the Coastal Act.

3.5.2 City of San Diego Historical Resources Board Eligibility Criteria

Because this project requires approval from the City of San Diego, HRB eligibility criteria were used for this evaluation. Therefore, criteria for listing on the San Diego Register of Historical Resources (SDRHR), the CRHR, and the National Register of Historic Places (NRHP) would be followed in evaluating the significance of identified resources.

A resource must be significant at the local, state, or national level, under one or more of the following criteria in order to be eligible for designation on the SDRHR:

- **City of San Diego HRB Criterion A:**
  It exemplifies or reflects special elements of the city's, a community's, or a neighborhood's historical, archaeological, cultural, social, economic, political, aesthetic, engineering, landscaping, or architectural development;

- **City of San Diego HRB Criterion B:**
  It is identified with persons or events significant in local, state, or national history;

- **City of San Diego HRB Criterion C:**
  It embodies distinctive characteristics of a style, type, period, or method of construction, or is a valuable example of the use of indigenous materials or craftsmanship;

- **City of San Diego HRB Criterion D:**
  It is representative of the notable work of a master builder, designer, architect,

engineer, landscape architect, interior designer, artist, or craftsman;

- **City of San Diego HRB Criterion E:**
  It is listed or has been determined eligible by the National Park Service for listing on the NRHP, or is listed or has been determined eligible by the State Historic Preservation Office for listing on the State (California) Register of Historical Resources; or

- **City of San Diego HRB Criterion F:**
  It is a finite group of resources related to one another in a clearly distinguishable way or is a geographically definable area or neighborhood containing improvements, which have a special character, historical interest, or aesthetic value, or which represent one or more architectural period or styles in the history and development of the city.

The four primary evaluation criteria to determine a resource's eligibility to the NRHP, in accordance with the regulations outlined in 36 CFR 800, are identified by 36 CFR 60.4. Historic resource properties may be considered eligible for listing on the NRHP if they meet one or more of the following criteria identified in 36 CFR 60.4:

(A) Is associated with events that have made a significant contribution to the broad patterns of our history;
(B) Is associated with the lives of persons important in our past;
(C) Embodies the distinctive characteristics of a type, period, or method of construction, or represents the work of a master, or possesses high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
(D) Has yielded, or may be likely to yield, information important in prehistory or history.

According to PRC Section 5024.1(c), a resource may be listed as a historic resource in the CRHR if it meets any of the following NRHP criteria:

(A) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
(B) Is associated with the lives of persons important in our past;
(C) Embodies the distinctive characteristics of a type, period, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or

(D) Has yielded, or may be likely to yield, information important in prehistory or history.

3.6 Native American Consultation

The Assembly Bill (AB) 52 process, which includes new requirements by the legislature regarding Tribal Cultural Resources (TCRs), will require tribal consultation as part of the CEQA process. Essentially, the legislature intended to ensure that local and tribal governments, public agencies, and project proponents would have information available in order to identify and address potential adverse impacts to TCRs. By taking this proactive approach, the legislature also intended to reduce the potential for delay and conflicts in the environmental review process. The intent of tribal consultation under AB 52 is to establish a meaningful consultation process between California Native American tribal governments and lead agencies during the CEQA environmental review process. In doing so, TCRs can be identified and culturally appropriate mitigation and mitigation monitoring programs can be considered by the decision-making body of the lead agency. The summary provided below lists the steps that are required to complete this process:

- ***Step 1:*** The SLF search must be requested from the NAHC. This search indicates if any sacred or significant Native American sites are located within the project area. The NAHC will also provide a list of concerned tribal representatives in the area of the project. The list of Native American tribes corresponds to their traditional geographic areas pursuant to PRC Section 21080.3.1. This list will serve as the AB 52 contact list.

- ***Step 2:*** The lead agency must send formal notice to those tribes who have previously requested notification for that area of the project. The formal notice is sent to the prescribed tribal contact person and includes a description of the project, a map of the project location, and agency contact information. The notice also states that the tribe has 30 days to request consultation pursuant to PRC Section 21080.3.1(d).

- ***Step 3:*** Tribes conduct internal research to determine if TCRs are present within the project area.

    - If any tribe DOES NOT respond within 30 days of the agency's notice, this must be noted in the Environmental Impact Report (EIR) document and the project proceeds with review.
    - If any tribe DOES respond in writing within 30 days of the agency's notice requesting consultation, the request for consultation should also indicate the following:

- Whether there are TCRs in the project area. If so, what specifically is the TCR? The tribe must provide the lead agency with substantial evidence to support this, and if the TCR consists of a landscape, the tribe must geographically define the landscape in terms of its size and scope (PRC Section 21074[b]).
- Would the project cause an impact to a TCR?

- ***Step 4:*** The agency initiates the consultation process and schedules a meeting with the tribe(s) within 30 days of receiving a request to consult (PRC Section 21080.3.1[e]). At a minimum, this consultation shall take place between the tribe's designated contact person and the agency's representative. The project applicant may participate with permission from the tribe; however, they are not required to participate in the consultation. This initial consultation shall include, at a minimum, the following topics:

  - TCRs and the potential significance of project impacts.
  - Possible mitigation measures and project alternatives (PRC Section 21080.3.2[a]).

  If a potential impact is recognized by the tribe(s), but is less than significant, the lead agency would need to discuss how the project could impact the TCR(s) and document this in the CEQA document, including a discussion of any conditions of approval needed to ensure that the less than significant impacts remain less than significant. If a potential impact is identified by the tribe(s) that is also potentially significant, the lead agency must discuss how the project could impact the TCR(s) and discuss appropriate measures to avoid or mitigate this impact. If the impact cannot be mitigated, the EIR would need to consider overriding considerations.

- ***Step 5:*** Consultation shall be considered concluded when either of the following occurs:
  - The lead agency, the tribe(s), and the applicant agree to measures to avoid or mitigate a significant impact, if a significant impact exists, on a TCR. This may be reflected in the project design, mitigation measures, and/or conditions of approval, as appropriate. The agency then incorporates mitigation measures into the CEQA document and provides the tribe with a final letter, which includes a copy of the project conditions of approval and the appropriate CEQA mitigation measures (PRC Section 21080.3.2[b][1]).
  - The agency or the tribe(s), acting in good faith and after reasonable effort,

conclude that mutual agreement cannot be reached. In this case, the agency documents the good faith and reasonable effort employed by the parties in attempting to reach mutual agreement. The agency should also: assess the facts of the case; consider the tribal cultural values as provided by the tribe(s) during consultation; consider scientific and archaeological values; employ its best judgement regarding the potential for a significant effect on a TCR; and apply to the project, as appropriate, any associated avoidance or mitigation measures. The agency will provide the tribe(s) with a final letter that includes a copy of the project conditions of approval, which also include CEQA mitigation measures, if any.

4.0 RESEARCH DESIGN

Pursuant to the application for the development, and in light of the cultural resource density within the environment surrounding the project area, the following research design was adapted to assist in the interpretation of the collection of data from the excavations within the Lumina Project. The primary goal of the research design is to attempt to reconstruct the way in which humans have used the land and resources within the project area through time. As people used the area, evidence of their activities has been preserved on and in the ground. Archaeological methods are used to retrieve and analyze portions of this evidence to reconstruct past lifeways. This type of inquiry is part of the cultural resources management aspect of environmental conformance studies. The testing program for the Lumina Project included a records search, background research, test excavations (as outlined in Section 5.0), and the mapping of any features, artifacts, and locations of subsurface archaeological tests conducted.

Primary objectives, such as the determination of the boundaries of any discoveries, depth of any archaeological deposits, stratigraphy, integrity, content, and spatial distribution of any subsurface artifacts and cultural ecofacts, are essential to the current testing phase of the program. Normally, a research orientation transcends these goals by expanding the meaning of information extracted from a site through the use of archaeological questions important in current scientific research. Regional and temporal research issues should be taken into consideration when posing such questions; however, because the boundary of buried intact cultural resources is uncertain, the research design for the current project is limited in scope. The topics and associated research questions provided below address concerns specific to the project.

The archaeological testing at the Lumina Project incorporated information derived from other studies in the vicinity that have encountered elements of sites SDI-7208, SDI-10,963, and SDI-14,094 and was conducted in accordance with the Management Plan for Otay Mesa Prehistoric Resources (Gallegos et al. 1998). Previous work in the Otay Mesa area is particularly relevant given the identification of prehistoric cultural resources. Otay Mesa is unique in that it contains hundreds of archaeological sites, some of which date to the early and middle Holocene and the beginning of San Diego prehistory (Gallegos et al. 1998; Kyle et al. 1990, 1998). A number of lithic scatters similar to those on or near the APE have been documented throughout Otay Mesa. These lithic scatters are known collectively as the "Otay Smear," which is characterized as an extensive, yet scant, surface lithic scatter primarily consisting of cores and debitage and occasionally a few tools (Gallegos et al. 1998). The natural abundance of cobble material well suited for making stone tools, associated with the Lindavista and Otay Formations, accounts for the extensive nature of this lithic scatter. Habitation sites and temporary camps are interspersed throughout Otay Mesa and tend to be located near water sources and at the head of drainages. Major habitation sites contain knives, atlatl dart points, milling and cobble tools, cores, drills, hammerstones, scrapers, beads, pendants, bone, and shell, and have ranged in age between 9,500 to 300 YBP (Gallegos et al. 1998; Smith et al. 2004, 2006). Metavolcanic

quarries are located in the Jamul and San Ysidro Mountains, near outcrops of Santiago Peak Volcanic materials. The quantity and variety of sites in the Otay Mesa region attests to the availability of toolstone materials, plant and animal resources, and water that provided sustenance to prehistoric populations.

The current project is identified as being located on a relatively flat upper mesa overlooking Spring Canyon to the west and Wruck Canyon to the southwest. Although portions of SDI-7208 and SDI-10,963 have been previously tested with negative results for significant archaeological deposits and the sites on the APE appear to fit the common pattern of the "Otay Smear," there still remains a moderate potential for subsurface archaeological resources in areas of the sites that were not previously tested.

The research design for the Lumina Project employs regional and locally specific questions and identifies data needs to approach focused archaeological research questions. For the research design, many of the research questions overlap, as they address environmental setting and prehistoric occupation patterns. Although a wide range of research questions may be possible for investigations at SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261, the primary research areas selected for the project are based upon previous work in the neighborhood, potential of available data to address these questions, and possible overall contribution to the archaeological record. The specific research questions focus upon chronology, lithic technology, settlement patterning, and subsistence strategy. The goal of the testing program is to determine if data from the Lumina Project can possibly contribute to the proposed research questions that reflect the research conducted elsewhere in the adjacent vicinity. The research topics listed below were used to guide the study and to determine the sample size necessary to provide sufficient materials to address the posed research questions.

Chronology

> *What was the period(s) of use and/or occupation for sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261? Is there evidence of multiple periods of occupation at the sites and can they be identified through radiocarbon analysis? Temporally, how do the sites fit into the overall pattern for San Diego County? That is, what group or culture are we examining in the context of the known culture history, and can we differentiate between periods of occupation(s)?*

Determining the period(s) of occupation of a site or a region can be accomplished by the use of radiocarbon dating and relative dating techniques. Radiocarbon dating depends upon the retrieval of dateable materials such as bone or shell. In San Diego County, radiocarbon dates range from approximately 9,000 YBP to historic contact. In contrast, relative dating is based upon the recovery of specific artifacts that are temporally diagnostic, such as atlatl dart points, arrow points, and ceramics. Stratigraphic analyses, obsidian sourcing, and hydration rind measurements may also serve as relative dating measures. The combination of both radiocarbon

measures and relative dating observations help to provide a greater chronological picture for any given site.

There is considerable archaeological evidence of prehistoric occupation within the Otay Mesa region ranging between 9,500 to 300 YBP (Gallegos et al. 1998; Smith et al. 2004, 2006). The ability to date resources located within the Lumina Project would provide a greater understanding of the area's occupation history. In addition, this research helps to delineate (where possible) divisions between Late Prehistoric and Early Archaic occupation. Finally, further chronological analyses may also reveal if the sites may be better understood synchronically, diachronically, or both. However, in order to address the research questions posed, a more accurate temporal placement of the sites was necessary.

Study Topics

1. Can multiple periods of occupation be determined through chronological analysis of sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261?
2. Does the chronological data suggest longer periods of occupation during the Late Prehistoric Period or Early Archaic Period?
3. Where do sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261 place chronologically in the overall pattern for sites within San Diego and southern California in general?
4. How do temporally diagnostic artifacts from sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261 compare to available C-14 data, and does the data suggest stratigraphic mixing of the assemblage?

Data Needs

Previous work in the general area of the Lumina Project indicates that although lithic artifacts are the most likely artifact type, there is potential to recover shell or bone. If appropriate materials were present in the assembly, radiocarbon dating was planned to provide dates for prehistoric use. If the recovered data permits, relative dating may be possible using point types, the presence of ceramics, and analysis of obsidian. If obsidian is present in the collection, samples may be tested for hydration values that can be used to relatively date the site by using comparable hydration rates.

Lithic Technology

What technological lithic trajectories were employed by the prehistoric inhabitants of sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261? Which lithic reduction strategies were in use and when? What role, if any, did milling technology play at sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261? Is there notable variation in observable lithic technologies between coastal sites and inland sites of the same time period?

Several flake tool reduction strategies have been identified for the southern California coastal region. These strategies include biface reduction, split-nodule core reduction, small blade core reduction, bipolar core reduction, and nodule reduction. The decision to use one or the other of these techniques was dependent upon several factors, but the most important factors were the type of material being worked, the morphology of the parent material, and the intended tool. For example, some lithic materials, such as Monterey chert and Piedra de Lumbre (PDL) chert, are more easily worked, and with heat treatment become some of the best knappable material in the western United States. Problems exist, however, in the form of the material in its raw state. PDL chert generally occurs in small pieces, and was thus used extensively in the late Holocene for small arrow points (Pigniolo 1992). However, this material has been recovered from a site dating to 8,000 years ago (Gallegos 1991). Monterey chert occurs in small cobbles and in layers. For small cobbles, bipolar reduction would be the most efficient method of producing usable flakes. For the layered Monterey chert, biface reduction was the most expedient method of producing tools, as the layers were already thin and only the outer perimeter needed to be worked (Cooley 1982). Other chert sources in San Diego need to be identified and the material chemically characterized. Large biface production and reduction requires pieces of material large enough to be reduced and homogeneous enough to produce workable items. Santiago Peak Volcanics, found in San Diego, have been used extensively for the production of large tools (*i.e.,* adzes, scrapers, scraper planes, cores, and hammerstones) and bifaces (Schroth and Flenniken 1997). The use of quarry material from these formations may be an early to middle Holocene marker, as the larger spear and dart points would have necessitated the use of larger blocks of parent material.

Nodule core reduction comprises numerous techniques with specific trajectories, such as pyramidal-shaped, split-nodule core reduction (used to produce thick, contracting flakes for flake tools), the production of teshoa flakes for large flake tools, and nodule core tools wherein the parent material, rather than the removed flakes, becomes the tool. Cobble layers found in streambeds, across coastal terraces, and along the coast provided materials for these reduction sequences. Nodule core reduction is known in southern California archaeological literature as "Cobble Core Reduction" (Gallegos et al. 2002; Gallegos et al. 2003). The term "nodule" was substituted for "cobble" because a cobble is geologically defined as a size clast (64 to 256 millimeters), and many prehistoric core and core-based artifacts (such as some battered implements) were manufactured from boulders (>256 millimeters), and to a lesser extent, pebbles (four to 64 millimeters). The term "nodule" was selected because nodules as a class are not size-specific and tend to be rounded to sub-rounded. For north coastal San Diego, nodule core reduction technology is the most common core technology identified in archaeological sites that range from the early Holocene to historic contact with native peoples (Stropes 2007). In addition, products of nodule core reduction are some of the most abundant tool forms identified in assemblages throughout the region. This simple and expedient technology may have been so commonly employed because it provided a simple and relatively effortless way to produce useful

flakes and flake blanks intended for immediate use or further reduction into a wide range of tool forms. Effort is defined in reference to the lithic technology described here as the amount of energy needed to reduce stone into a viable product. Because of the local abundance of metavolcanic materials in nodule form, there was little need for more material-efficient, and consequently more time-consuming, technology.

Prehistorically, the use of ground stone implements (*i.e.,* manos, metates, and pestles) is common throughout San Diego County archaeology sites. However, when viewed chronologically, many researchers have suggested that lithic milling equipment was either absent or rare in assemblages identified to the Paleo Indian Period (Chartkoff and Chartkoff 1984; Moratto 1984; Moriarty 1966; Rogers 1939), suggesting a greater reliance upon food packages that required minimal milling-based processing for consumption. In contrast, some believe that a lack of milling at Paleo Indian Period sites is a reflection of site-use patterning rather than the absence of milling technology for the time period. To date, minimal research has been conducted regarding ground stone manufacture and the use, or change of use, through time in San Diego County. However, studies such as Flenniken's 1993 analysis of tools from SDI-10,148 have demonstrated that sites exist in San Diego that demonstrate ground stone manufacture and rejuvenation activities (Flenniken et al. 1993). Therefore, analysis of debitage and tools from habitation sites can provide information regarding manufacture, use, and rejuvenation of ground stone, if present. In addition, variation in resource exploitation and changes in site function should be analyzed to determine if ground stone tools were designed for specific functions (*i.e.,* mortar and pestle use for acorn processing) and if technological changes in milling equipment occurred through time as climate and resources changed.

Study Topics

1. Which technological reduction strategies are present based upon a technological analysis of flaked stone at the property?
2. Which reduction strategies were used to produce which tools? Were these strategies the same or different?
3. Is there variation between flake-based tool kits at sites where shellfish processing is the dominant activity and sites focused upon other subsistence activities from the same time period?
4. How do the technologies identified at sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261 and the stages of tool reduction relate to site function and the tools recovered?
5. Were the prehistoric lithic tools present within the property manufactured on-site or at another location?
6. Have specific lithic reduction techniques changed through time at sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261 (*i.e.,* does large biface reduction predominate during the Paleo Indian Period and nodule-based technologies

predominate during the Early Archaic Period and Late Prehistoric Period)? What function did milling technologies serve at sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261?

Data Needs

Previous work in the Otay Mesa neighborhood indicates that flaked lithics and ground stone implements are present at sites in the general area. Therefore, all lithic materials recovered from the Lumina Project were analyzed for technological analysis based upon replicative data. In order to address the proposed research questions, the following information was required:

- Collection of an appropriate sample of cores, tools, and debitage;
- Technologically-based analysis of cores, tools, debitage, and milling equipment; and
- Identification of the technological attributes and reduction sequences used to produce the tools.

Settlement and Subsistence

What settlement and subsistence patterns can be identified at sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261, and have these patterns changed over time? Did the pattern of plant and/or animal resource exploitation change over time? If so, what influenced the changes: environmental change, population change, technological change, or a combination of these factors? If these sites are representative of a continuously occupied habitation site, how does it relate to other sites, such as base camps, special-use sites, or extractive sites? How did occupation and use of this site contribute to seasonal or year-round occupation of the region in general?

Because of the close relationship between prehistoric settlement, subsistence patterns, and the environment, it is necessary to understand the setting in which these systems operated. At the end of the final glacial period, approximately 11,000 to 10,000 YBP, the sea level was considerably lower than it is now; the coastline at that time would have been between two and two-and-one-half miles west of its present location (Smith and Moriarty 1985a, 1985b). At approximately 7,000 YBP, the sea level rose rapidly, filling in many coastal canyons that had been dry during the glacial period. The period between 7,000 and 4,000 YBP was characterized by conditions that were drier and warmer than they had been previously, followed by a cooler, moister environment that was similar to the present-day climate (Robbins-Wade 1990). Changes in sea level and coastal topography are often manifested in archaeological sites in the types of shellfish that were utilized by prehistoric groups. Different species of shellfish prefer certain types of environments; dated sites that contain shellfish remains reflect the setting that was exploited by the prehistoric occupants.

Unfortunately, pollen studies conducted for this area of San Diego have not been definitive regarding the transitions of the paleoenvironment in response to climate change over the past 10,000 years; however, studies in other areas of southern California, such as Santa Barbara, indicate that the coastal plains supported a pine forest between approximately 12,000 and 8,000 YBP (Robbins-Wade 1990). After 8,000 YBP, this environment was replaced by more open habitats that supported oak and non-arboreal communities. The coastal sage scrub and chaparral environments of today appear to have become dominant after 2,200 YBP (Robbins-Wade 1990).

Traditionally, sites such as prehistoric habitation sites are archaeologically differentiated from specialized function sites (*i.e.,* quarries, shellfish processing sites, and milling stations) by the range of materials identified in the assemblage. In addition, there is also a notable amount of variability between habitation sites as a group with regards to size, artifact density, and diversity of material culture. This observed variation may relate to differences in the quantity of people who occupied a given site, the duration of a site occupation, the frequency with which a site was reused, and the range of activities performed at the site. Identifying such variations in site patterning may help to facilitate the reconstruction of prehistoric social organization and economic adaptations to environmental change. Although many attempts have been made to discern settlement patterns for Late Prehistoric Period sites based upon ethnographic data, the same cannot be said for Early Archaic Period sites in San Diego. The study of earlier settlement systems represented in the archaeological record has gone largely unstudied with the exception of research pertaining to whether coastal Early Archaic Period habitation sites represent permanent settlements or short-term, seasonal camps (Davis 1976) primarily focused upon economic exploitation of shellfish. Studies at sites within the Otay Mesa vicinity could add considerably to the understanding of prehistoric settlement and subsistence in the region should significant resources be identified.

Located near Spring and Wruck canyons, seasonal site use at SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261 is implicit in the availability of fresh water only during the rainy season (winter). However, the exploitation of the readily abundant Santiago Peak Metavolcanic material that is present on the mesa, in quarries, and in the adjacent foothills, as well as the possible application of lithic tools for the exploitation of animal and vegetal resources available within the archaic coastal plain environment, may suggest a subsistence pattern focused on more than just resources identified within the local canyons.

Invertebrate and vertebrate faunal analysis from sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261 may help to also identify environmental change for southern California based upon the rise in sea level that occurred during the early to middle Holocene, should shell resources be recovered. This change is believed to have prompted the flooding of coastal valleys and the formation of much of the San Diego lagoon system. The majority of evidence for environmental change in or near lagoons is based upon the analysis of core samples combined with radiocarbon dates and radiocarbon-dated shellfish samples taken from prehistoric sites near

lagoons. Several studies have employed shellfish analysis to explain site patterning and environmental change including Miller (1966), Warren et al. (1961), Warren and Pavesic (1963), Bull and Kaldenberg (1976), and Masters (1988). Environmental studies suggest that circa 3,500 years ago sea levels stabilized, which resulted in an increase in the siltation of the majority of northern San Diego County lagoons during the late Holocene. In contrast, San Diego Bay formed in the early Holocene and stayed open to the ocean throughout the Holocene (Gallegos and Kyle 1988). Taking this into consideration, some prehistoric sites around more northern lagoons may reflect a changing environment and the loss of certain lagoon shellfish and fish species. In contrast, sites reflecting exploitation of bay resources may not reflect a change in the exploitation pattern of shellfish species, type of shellfish, and/or absence of shellfish.

Previous studies within SDI-7208 have produced minimal amounts of shellfish and faunal remains. However, the portion of SDI-7208 within the off-site improvement corridor for the Lumina Project has been previously disturbed and no potential for elements of this site remain within the APE. Therefore, the following study topics will be addressed as part of the assessment of cultural materials recovered from the Lumina Project, should those materials be discovered.

Study Topics

1. Do sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261 represent both Early Archaic Period and/or Late Prehistoric Period components, and if so, are environmental changes and changes in resource exploitation over time reflected in the faunal assemblage?
2. Does the settlement pattern of Otay Mesa reflect the use of Santiago Peak Metavolcanic material, or does the pattern reflect processing and use of various plant and/or animal resources located prehistorically on the mesa and in adjacent canyons; or does it reflect both?
3. Do sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261 represent a specialized food processing site or a campsite where a wide range of foods were gathered and processed?
4. As very little is known about Early Archaic Period settlement patterns, what information do sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261 provide to add to our prehistoric understanding of site occupation and use patterning?
5. Does the faunal assemblage indicate if sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261 were occupied on a seasonal or year-round basis?

Data Needs

The data that is needed from the Lumina Project to address the questions about economic exploitation of resources at sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261 includes the recovery of floral and faunal remains to permit the reconstruction of diet or dietary practices

and preferences of the site occupants. The presence of particular plant and animal species allows for a more complete understanding of the range of environments exploited by the occupants of the Otay Mesa region. Available methods for interpreting available data include speciation of vertebrate and invertebrate faunal materials, protein residue analysis, and the subsequent identification of habitats based upon species information. Based upon previous studies of intact strata, pollen and phytolith preservation may have been possible and should be considered when intact subsurface levels and/or features are identified. Artifacts recovered from the site can also provide inferential information regarding subsistence exploitation. For example, if plant material is not found, the presence of mortars, manos, pestles, bowls, and metates provides evidence that floral and faunal material were processed at the site. Immunological studies of residues on tools from the site may provide data relating to both the use of tools and to resources exploited. As such, protein residue analysis from recovered ground stone implements and flaked tools may also be required. Often, it is necessary to process relatively large numbers of lithic tools to obtain protein residue information for a given site.

In order to understand settlement patterning for sites SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261, the recovered archaeological assemblage must be viewed in its entirety. It is through the comparison of chronological studies, faunal studies, environmental reconstruction, and prehistoric technology studies that an understanding of the settlement patterning of the site will be achieved. In addition, although the number of otoliths commonly found in the region is very small, if present, otoliths recovered from the site can be identified by species and subjected to a seasonality study. The resulting data can then be assumed to reflect the species sample and, consequently, at a minimum, the seasonality of the site occupation.

5.0 METHODOLOGY

The goal of this study is to evaluate archaeological data obtained from research and field investigations for the Lumina Project. All investigations conducted by BFSA related to this project conformed to CEQA and City of San Diego guidelines, as well as project-specific requirements provided by city staff.

5.1 Archaeological Methodology

The archaeological assessment program for this project included a field investigation that incorporated subsurface excavations (53 STPs and a test unit) to produce an evaluation of resource significance. This archaeological study conformed to City of San Diego Historical Resources Guidelines and project-specific requirements. Statutory requirements of City of San Diego Historical Resources Guidelines including the Management Plan for Otay Mesa Prehistoric Resources (Gallegos et al. 1998), CEQA, and subsequent legislation (Section 15064.5) were followed in evaluating the significance and integrity of the cultural resource. Specific definitions for archaeological resource type(s) used in this report are those established by the State Historic Preservation Office (SHPO March, 1995).

5.1.1 Field Methodology

In accordance with City and CEQA review requirements, an intensive pedestrian reconnaissance was conducted that employed a series of parallel survey transects spaced at 10-meter intervals to locate archaeological sites within the project. Project Archaeologist Andrew Garrison (RPA) and Archaeological Field Director Clarence L. Hoff conducted the intensive pedestrian survey on December 5, 2017 under the direction of Principal Investigator Brian F. Smith. The entire project, including offsite improvements, was covered by the survey process and photographs were taken to document project conditions (see Section 6.0). Ground visibility throughout most of the APE was good to excellent; however, dense brush limited visibility along slopes leading into ravines located in the northwest and southwest portions of the property. Visibility was also limited within areas of development in the southeastern portion of the APE. All potentially sensitive areas where cultural resources may have been located were closely inspected. Photographs documenting survey discoveries and overall survey conditions were taken frequently (Plates 6.1–1 and 6.1–2). No constraints were encountered during the survey, which resulted in the identification of four historic structures, six isolated prehistoric artifacts, five loci of Site SDI-10,963, one new archaeological site (SDI-22,261), and relocated SDI-14,094. All cultural resources were recorded as necessary according to the Office of Historic Preservation's manual, *Instructions for Recording Historical Resources* using Department of Parks and Recreation (DPR) forms.

The Phase II testing and evaluation program for cultural resources within the Lumina Project took place from January 22 to 25, 2018. The cultural resource test strategy employed for

the sites included collection of surface artifacts, completion of subsurface investigations, and significance evaluations. All surface artifacts and STP/test unit locations within the project boundaries were mapped using a Trimble Geo XT GPS unit equipped with TerraSync software.

Subsurface testing was completed at each site and loci identified or relocated during the survey because of the potential to be directly or indirectly impacted by development, and to evaluate each site or loci for CEQA significance. Subsurface examinations were conducted through the excavation of a series of STPs to determine if cultural deposits were present. Placement of the STPs was dependent upon areas of soil accumulation and distribution of surface artifacts. The shovel test series consisted of 30-by-30-centimeter excavations, which proceeded in decimeter levels downward to a minimum depth of 30 centimeters where sufficient soils remained. Due to the recovery of a moderate amount of historic subsurface artifacts from Site SDI-10,963 Locus 1, a one-square-meter test unit was excavated within the eastern portion of the locus. All excavated soils were sifted through one-eighth-inch mesh hardware cloth. A Native American representative from Red Tail Monitoring & Research, Inc. was present for all field investigations.

5.1.2 Laboratory Methodology

In keeping with generally accepted archaeological procedures and utilizing a classification system commonly employed in this region, the collected artifacts were categorized as to artifact class, material class, and technological class. Comparative collections at the BFSA laboratory were employed in identifying the unusual or highly fragmentary specimens as necessary. After cataloging and identification, the collections were marked with the appropriate provenience and catalog information, and then packaged for permanent curation. No radiocarbon dating or other specialized studies were conducted based upon the limits of the materials recovered from across the project. All artifacts from the project were prepared for permanent curation at the San Diego Archaeological Center (SDAC).

Historic Artifact Sorting and Analysis

The sorting technique for the historic artifact collection included the sorting, identification, and cataloging of all materials returned to the BFSA laboratory. Bulk items such as small fragments of ceramic and nondescript glass and metal were weighed and cataloged en masse, by material type, for each level. All remaining artifacts were separated by class and type, and bagged accordingly. All artifacts were identified and entered into a database to produce an artifact catalog.

Historic Artifact Functional Categories

Artifacts were prepared for cataloging according to standard laboratory practices. Items that were covered in dirt to the point of obscuring relevant characteristics were dry-brushed or wiped with a damp cloth in order to enhance the artifact description. Each catalog entry was

bagged in a two-millimeter-thick archival quality bag labeled with location and catalog number information. Information recorded about cataloged artifacts includes provenience and depth, material, quantity and/or weight, artifact type, functional category, and a brief description of the artifact(s), which includes any diagnostic information about manufacturing methods, brand or product marks, and manufacturers' marks. Artifacts sharing the same provenience, material, and color characteristics, but that were fragmentary, were assigned a single catalog number. Artifacts were classified by functional category for purposes of analysis. These functional categories have been outlined by Van Wormer et al. (2005) and include:

- *Consumer Items* – Consumer items consist of packaged items purchased and consumed on a regular basis. Generally, these include groceries such as condiments, other preserved foods, beverages, and medicines. Under most conditions, consumer items recovered from archaeological deposits came in containers that do not deteriorate over time, such as glass or ceramic bottles and jars, and in some instances, tin cans.

- *Kitchen Items* – Kitchen items are defined as objects used in tasks of food preparation, serving, and consumption. These types of artifacts may include ceramic kitchen and tableware, glass tableware, canning jars, canning jar lids and related items, cooking utensils, and flatware.

- *Food Items* – Food items include butchered bone, fish bone, shellfish, and seeds.

- *Household Items* – Household items are mainly related to a house structure and its furnishings, and non-food-related items used by the inhabitants. Artifact classes and types considered part of this category include lamps, household ceramics, batteries, and household glassware.

- *Garment Items and Tools* – Garment items and tools include all items related to clothing, including objects such as buckles, buttons, shoe parts, safety pins, and sewing scissors.

- *Personal Items* – Personal items are associated with an individual rather than a household, and are therefore not generally shared. Artifact classes and types in this category include grooming and hygiene products, cosmetic/beauty products, clothing, bicycles, items, personal adornment items such as currency, jewelry, eyeglasses, and hair adornment, keys, pocket tools, purses, smoking-related items, and portable musical instruments.

- *Toys and Games* – Toys and games are associated with recreational activities. Artifacts may include marbles, toy cars, dolls, and gaming tokens.

- *Livery Items* – Livery items are primarily concerned with the use and maintenance of horses and horse-drawn vehicles. This may include a range of items from common horseshoes to saddle and buggy parts.

- *Munitions Items* – Munitions items are related to the use, maintenance, and repair of firearms. This may include a range of items from the firearm itself, spent cartridges, gunflints, musket balls, and fragmented parts.

- *Hardware Items* – Hardware items are manufactured items used in the construction or maintenance of a residence that include screws, nails, hinges, handles, and plumbing or electric parts.

- *Building Materials and Architecture Items* – Building materials and architecture items include all items related to the construction and maintenance of buildings and structures. This includes items such as door and lock parts, nails, window glass, concrete, electrical hardware, etc.

- *Furniture Items* – Furniture items include all items related to the hardware and construction of household furniture. This includes items such as bed frames and springs, cabinet hinges, drawer pulls, scroll trim, trunk parts, and upholstery tacks.

- *Machinery Items* – Machinery items include all machine parts that are not directly related to agricultural activities.

- *Tools* – This category generally consists of any hand tool used to build or maintain a structure or operate a business. Hammers, saws, wrenches, and screwdrivers are all common tools that would fall into this category.

- *Transportation Items* – Transportation items include artifacts beyond those items that would otherwise be associated with livery items. Transportation artifacts are associated with the advent of mass transportation or mechanical advances associated with the automobile.

- *Unidentifiable Items* – Unidentifiable items are too small or fragmentary to identify to artifact type.

5.1.3 Curation

The project field notes, photographs, and report will be curated at the offices of BFSA in Poway, California. All artifact collections will be temporarily housed at BFSA until permanent curation can be arranged at a curation facility approved by the City of San Diego. All fees associated with this curation will be the responsibility of the project applicant(s).

5.1.4 Native American Consultation

Native American consultation is being conducted by BFSA and the City of San Diego. BFSA requested a review of the SLF by the NAHC. In accordance with the recommendations of the NAHC, BFSA contacted all Native American parties listed in the NAHC response letter. One response from the Viejas Band of Kumeyaay Indians stated that the project area has ties to the Kuneyaay Nation. A response from the Jamul Indian Villiage of California stated that the Otay Mesa region is a huge lithic scatter, while the San Pasqual Band of Mission Indians indicated that the project is located beyond the boundaries of their traditional use area but requested to be notified of any major project updates (Appendix D).

In addition, the current project is subject to AB 52. The AB 52 process, which includes new requirements by the legislature regarding TCRs, is formal government to government consultation between the City of San Diego and California Native American tribal governments who have expressed interest in participating in the consultation process. Generally interested tribes will request to review the archaeological technical documents. Consultation between the City of San Diego and interested Native American tribal governments will be handled by the City. Further, the release of any reports concerning this project will be made available to the tribes at the discretion of the City.

6.0 REPORT OF FINDINGS

The recorded evidence of prehistoric archaeological sites within the APE indicated a strong possibility of locating unrecorded resources during the survey. The study resulted in the identification of four historic structures, six isolated prehistoric artifacts, five loci of Site SDI-10,963, one new archaeological site (SDI-22,261), and relocated SDI-14,094. Analysis of the historic structures is discussed within a separate report (Smith and Stropes 2018) utilizing the City of San Diego's historic structure assessment format, while the following discussion presents the results of the archaeological field investigations.

6.1 Results of the Field Survey

An archaeological survey of the property was conducted on December 5, 2017 to locate any previously recorded archaeological sites, as well as to search for any unrecorded resources within the Lumina Project. The entire property was closely inspected for any evidence of cultural resources. Visibility throughout most of the property was good to excellent; however, dense brush limited visibility along the slopes leading into ravines located in the northwest and southwest portions of the property. Visibility was also hindered within areas previously developed in the southeast portion of the APE. The archaeological survey of the project focused upon all areas of bare soil, which were closely inspected for artifacts and ecofacts.

The field survey identified six isolated prehistoric artifacts, five loci of SDI-10,963 (Loci 1 through 5), one new archaeological site (SDI-22,261), and relocated SDI-14,094 (Figure 6.1–1). Site SDI-10,963 Locus 1 was identified as a multicomponent element of the site, as the surface contained prehistoric lithic artifacts and historic trash. The prehistoric materials identified on the surface of the property are indicative of the Otay Smear, while the historic material is consistent with mid-twentieth century practices of rural trash dumping. No elements of SDI-7208 were identified during the survey, likely because this site is mapped within the already disturbed roads and right of ways included within the project's offsite improvements. Photographs were taken to record project conditions at the time of survey (Plates 6.1–1 and 6.1–2).

<u>Figure 6.1–1</u>
Cultural Resource Location Map

(Deleted for Public Review; Bound Separately)

Plate 6.1–1: Overview of the agricultural fields within the APE, facing southwest.

Plate 6.1–2: Overview of southeastern developed portion of the APE, facing north.

6.2 Results of Significance Testing

BFSA archaeologists completed significance testing at all the sites encountered during the survey from January 22 to 25, 2018. The testing program involved the thorough recordation of the identified resources and any associated features, and STP excavations to determine the subsurface extent of the resources. Specifically, testing of the individual site loci at Site SDI-10,963 was conducted between January 22 through 25, 2018 and consisted of collecting surface artifacts and excavating 44 STPs throughout the various loci and one test unit at Locus 1. Testing of Site SDI-14,094 was conducted on January 23, 2018 and consisted of collecting surface artifacts and excavating four shovel tests. Finally, testing of site SDI-22,261 was conducted on January 24, 2018 and consisted of collecting surface artifacts and excavating five shovel tests. Refer to Section 5.0 for a detailed account of the field methodologies employed. The following sections detail the results of significance testing at each site.

6.2.1 Site SDI-10,963 Locus 1

Site SDI-10,963 was first recorded by Roth and Associates in 1988 (Roth 1988a). Roth and Associates tested the site with negative results. Gallegos & Associates surveyed the general area, including portions of the current APE, from 2003 to 2005. As a result, the site boundary of SDI-10,963 was extended west onto the current APE. Gallegos & Associates conducted archaeological testing within the extended boundary of SDI-10,963 with negative results. During the current study, five loci were identified on the subject property within the boundary of SDI-10,963. The site encompasses almost the entirety of the agricultural fields located throughout the project, extending to the west and southwest from the intersection of Airway Road and Cactus Road (see Figure 6.1–1). Disturbances at the site include natural erosion, bioturbation in the form of small mammal burrows, impacts from previous grading and agricultural activities, and modern trash deposition. The setting of the site is shown in Plate 6.2.1–1.

Plate 6.2.1–1: Overview of Site SDI-10,963, facing east.

Description of Field Investigations

Locus 1 is located within the southwestern section of SDI-10,963. The locus is situated just southeast of the convergence of two dirt roads. Further, Locus 1 is located within the area previously determined by Guerrero et al. as a disturbed area containing undocumented fill material (2005). Locus 1 is characterized as a multicomponent portion of SDI-10,963 containing both prehistoric and historic surface material. As the STPs did not contain any substantial prehistoric subsurface material, the site boundary was defined by the surface artifacts measuring 134.5 feet (41 meters) from north to south and 226.4 feet (69 meters) from east to west, covering an area of 15,187.8 square feet (1,411 square meters). The historic material is concentrated within the eastern portion of the locus measuring 134.5 feet (30 meters) from north to south and 82 feet (25 meters) from east to west.

Surface Collection

The entire surface of the APE surrounding Locus 1 was inspected for artifacts and features. Prehistoric lithic material and historic trash was collected from the surface of the locus. The collected artifacts were recorded using sub-meter GPS technology, provenienced from the nearest STP, collected in bags labeled with provenience information, and returned to the BFSA laboratory. The collected prehistoric artifacts consisted of metavolcanic flake tools, debitage, cores, adze, and a volocanic prehistoric flake tool. Because many of the historic artifacts were fragmented or redundant in nature, only a representative sample of diagnostic artifacts was collected. Historic material collected from the surface of Locus 1 included glass bottle and cosmetic jar fragments, porcelain tableware and industrial fragments, and a ceramic and metal auto fuse. In the field, material was collected from 24 surface collection locations (SC-1 through -24). Through laboratory analysis of the material SC-1, -3, -11, -12, -13, -21, -22, and -24 were determined to not be cultural material and removed from any further analysis. The mapped locations of the surface collection areas and the configuration of Site SDI-10,963 Locus 1 is shown on Figure 6.2.1–1, while detailed surface collection information is presented in Table 6.2.1–1.

<u>Figure 6.2.1–1</u>
Excavation Location Map
Site SDI-10,963 Locus 1

(Deleted for Public Review; Bound Separately)

Table 6.2.1–1
Surface Collection Data
Site SDI-10,963 Locus 1

Surface Collection	Object Type	Material Type	Quantity	Cat. No.(s)
2	Flake Tool	Metavolcanic	1	1
	Debitage		1	2
4			1	3
5			3	4
6	Flake Tool		1	5
7	Debitage		1	6
8	Flake Tool		1	7
9	Debitage		1	8
	Core		1	9
10	Flake Tool	Volcanic	1	10
14	Debitage	Metavolcanic	1	11
	Core		1	12
15	Debitage		1	13
	Core		1	14
	Adze		1	15
16	Core		1	16
17	Debitage		2	17
18			1	18
	Indeterminate Bottle	Colorless Glass	1	161
19	Debitage	Metavolcanic	1	19
20	Industrial Ceramic	Porcelain	1	265
23	Cosmetic Jar	Milk Glass	2	162, 163
	Tableware Platter	Porcelain	1	266
	Automotive Fuse	Ceramic, Metal	1	273
	Debitage	Metavolcanic	1	20
		Total	29	

Subsurface Excavation

The potential for subsurface archaeological deposits at Site SDI-10,963 Locus 1 was investigated by excavating 11 STPs across the artifact concentration (see Figure 6.2.1–2). All of the shovel tests were excavated in decimeter levels to a minimum of 30 centimeters or until one sterile layer. The soil from the shovel tests can be characterized as very compact brown (10YR 4/3) clay silt, semi and moderately compact brown (10YR 4/3) silty clay, or yellow brown sandy loam. Although four small fragments of marine shell were identified within the upper levels of

STP 1, 2, and 10, no prehistoric artifacts were recovered from the STPs. A single tableware fragment was collected from the upper level of STP 9 while STP 1 and 10 both contained a moderate amount of subsurface historic refuse. In total, 39 historic artifacts and fragments were collected from the STPs including glass bottles and fragments, tableware vessel fragments, a serving spoon, sewer pipe fragments, and condiment, medicine, and cosmetic jar fragments (Table 6.2.1–2).

Table 6.2.1–2
Shovel Test Excavation Data
Site SDI-10,963 Locus 1

Shovel Test	Depth (cm)	Object Type	Quantity/ Weight	Cat. No.(s)
1	0-10	Marine Shell	0.7 gram	28
	10-20	Indeterminate Bottle	2	164, 165
		Window Glass	5.6 grams	166
	20-30	Tableware Vessel	1	267
	30-40	Indeterminate Bottle	2	169, 173
		Beverage Bottle	1	172
		Indeterminate Container	2	168, 170
		Medicine Jar	1	171
		Indeterminate Jug	1	167
	40-50	Indeterminate Bottle	3	174, 176, 178
		Alcohol Bottle	1	179
		Indeterminate Container	2	175, 177
		Cosmetic Jar	1	180
	50-60	No Recovery		
	60-65			
2	0-10	No Recovery		
	10-20			
	20-30	Marine Shell	0.2 gram	29
	30-40	No Recovery		
3	0-10	No Recovery		
	10-20			
	20-30			
4	0-10	No Recovery		
	10-20			
	20-30			
5	0-10	No Recovery		

Shovel Test	Depth (cm)	Object Type	Quantity/ Weight	Cat. No.(s)
	10-20			
	20-27			
6	0-10	No Recovery		
	10-20			
	20-30			
7	0-10	No Recovery		
	10-20			
	20-30			
8	0-10	No Recovery		
	10-20			
	20-30			
9	0-10	Tableware Bowl	1	268
	10-20	No Recovery		
	20-30			
10	0-10	Marine Shell	12.1 grams	30
		Indeterminate Container Fragments	68.6 grams	181
		Window Glass Fragments	10.5 grams	182
		Beverage Bottle	2	183, 184
		Indeterminate Bottle Fragments	2.3 grams	185
		Cosmetic Jar	1	186
	10-20	Marine Shell	7.2 grams	31
		Window Glass Fragments	4 grams	192
		Automotive Fuse	1	274
		Indeterminate Bottle	3	189, 190, 193
		Indeterminate Bottle Fragments	13.3 grams	194
		Beverage Bottle	1	195
		Beverage Bottle Fragments	8.9 grams	196
		Indeterminate Container Fragments	85.5 grams	191
		Serving Spoon	1	275
		Condiment Jar	2	187, 188
		Medicine Jar	1	197
		Cosmetic Jar	1	198
		Tableware Vessel	1	269
	20-30	Marine Shell	0.3 gram	32
		Indeterminate Container Fragments	96.7 grams	199
		Alcohol Bottle	1	204
		Beverage Bottle	2	200, 202

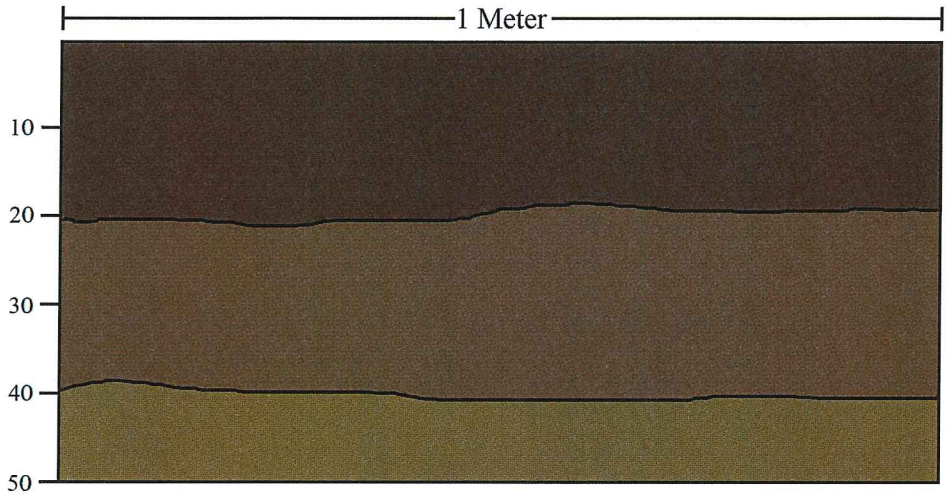
Shovel Test	Depth (cm)	Object Type	Quantity/ Weight	Cat. No.(s)
		Beverage Bottle Fragments	17.4 grams	203
		Indeterminate Bottle Fragments	8.1 grams	201
		Tableware Vessel	1	270
		Sewer Pipe Fragment	1	271
	30-40	Marine Shell	0.5 gram	33
		Indeterminate Container Fragments	9.9 grams	205
		Indeterminate Bottle	1	206
		Indeterminate Container	1	207
	40-50	No Recovery		
	50-60			
11	0-10	No Recovery		
	10-20			
	20-30			
		Total*	39	

**Total does not include grams*

Based upon the data from the STPs it was determined that there was no prehistoric subsurface component was associated with the surface scatter; however, because historic material was collected from STP 1 and 10, a one-meter square test unit was placed within the eastern portion of the locus to evaluate the historic deposit. The test unit was situated between STP 1 and 10 and excavated in decimeter levels to 50 centimeters when the soil became hard packed decomposing granite (Plate 6.2.1–2 and Figure 6.2.1–2). The soil from the test unit was similar to the STPs and can be characterized as compact brown (10YR 4/3) silty clay, loose brown (10YR 4/3) silty sandy, and loose light brown (10YR 6/4) silty sand transitioning to decomposing granite.

Plate 6.2.1–2: North wall profile of Test Unit 1, zero to 50 centimeters, excavated at Site SDI-10,963 Locus 1

189 artifacts and 957.5 grams of bulk glass fragments were collected from the test unit (Table 6.2.1–3). Three pieces of debitage and 70.4 grams of marine shell and were also recovered from the test unit. The debitage was collected from the upper levels of the unit while small amounts of marine shell were found throughout the unit. The presence of this material within the historic trash deposit indicates it was mixed with the trash at the time of disposal, and is not an indicator of any prehistoric subsurface component. Types of historic material recovered from the unit included window glass; various types of bottle, jar, container, and vessel glass; ceramic tableware and vessels; various types of hardware and building material including pipe fragments, wire, a fuse, and industrial ceramic. The test unit artifact assemblage was similar to the material recovered from the STPs and mainly included consumer and kitchen items made of glass or ceramic (Table 6.2.1–4 and 6.2.1–5). The test unit was excavated to a depth of 50 centimeters, with a pattern of artifact deposition that was highest between 10 and 30 centimeters.



Legend

- Compact, brown silty, clay
- Loose, brown, silty clay
- Loose, light brown, silty sand intertmixed with decomposing granite

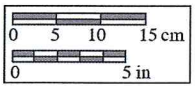


Figure 6.2.1–2

North Wall Profile of Test Unit 1

Site SDI-10,963 Locus 1

The Lumina Project

Table 6.2.1–3
Test Unit Excavation Data
Site SDI-10,963 Locus 1

Depth (cm)	Object Type	Quantity / Weight	Cat. No. (s)
0-10	Lithic Debitage	2	21
	Marine Shell	4.9 grams	23
	Alcohol Bottle	1	43
	Beverage Bottle	2	41, 44
	Condiment Jar	3	34-36
	Cosmetic Jar	1	45
	Indeterminate Bottle	3.1 grams	42
	Indeterminate Container Fragments	135.6 grams	37, 39
	Indeterminate Jar	1	38
	Industrial Ceramic	1	211
	Industrial Sewer Pipe	1	212
	Medicine Jar	1	40
	Tableware Mug	1	209
	Tableware Plate	1	210
	Tableware Vessel	1	208
10-20	Lithic Debitage	1	22
	Marine Shell	7.6 grams	24
	Beverage Bottle	2	61, 62
	Condiment Jar	6	46-49, 51, 52
	Cosmetic Jar	1	64
	Glassware Tumbler	1	56
	Glassware Vessel	2	55, 65
	Indeterminate Bottle	2	53, 54
	Indeterminate Container Fragments	206.3 grams	57, 59, 63
	Indeterminate Jar	1	58
	Industrial Ceramic	1	221
	Industrial Sewer Pipe	3	222
	Medicine Bottle	1	50
	Medicine Jar	1	60
	Tableware Mug	1	220
	Tableware Plate	1	219
	Tableware Teacup	1	216
	Tableware Vessel	5	213-215, 217, 218
20-30	Marine Shell	27.2 grams	25
	Alcohol Bottle	2	94, 100

Depth (cm)	Object Type	Quantity / Weight	Cat. No. (s)
	Beverage Bottle	3	77, 97, 98
	Condiment Jar	5	66-70
	Cosmetic Jar	1	103
	Glassware Vessel	4	89-91, 104
	Indeterminate Bottle	9	78-84, 86, 87
	Indeterminate Bottle Fragments	21.2 grams	99
	Indeterminate Container Fragments	309.5 grams	92, 95, 101
	Indeterminate Jar	3	85, 88, 93
	Industrial Ceramic	5	240, 241
	Industrial Sewer Pipe	8	242
	Kitchenware Storage Jar	1	239
	Medicine Bottle	6	71-76
	Medicine Jar	1	96
	Tableware Bowl	1	226
	Tableware Dish	1	234
	Tableware Mug	2	227, 228
	Tableware Plate	2	235, 237
	Tableware Vessel	14	223-225, 229-233, 236, 238
	Window Glass Fragments	9.8 grams	102
30-40	Marine Shell	25.1 grams	26
	Alcohol Bottle	13	110-114, 116, 117, 124, 128, 132, 148-150
	Automotive Fuse	1	272
	Beverage Bottle	10	115, 125, 131, 133, 153-155
	Condiment Jar	4	105-108
	Cosmetic Bottle	2	122, 123
	Cosmetic Jar	4	137, 157-159
	Cosmetic Jar Fragments	8.3 grams	138, 160
	Indeterminate Bottle	5	119-121, 134, 147
	Indeterminate Bottle Fragments	40.4 grams	136, 151, 156
	Indeterminate Container Fragments	113.3 grams	126, 129
	Indeterminate Jar	1	127
	Medicine Bottle	2	109, 118
	Medicine Jar	5.6 grams	130, 152
	Tableware Plate	1	247
	Tableware Platter	1	243
	Tableware Vessel	8	244-246, 248-252
	Window Glass	15.4 grams	135
40-50	Marine Shell	5.6 grams	27
	Alcohol Bottle	3	140, 142, 143

Depth (cm)	Object Type	Quantity / Weight	Cat. No. (s)
	Beverage Bottle	2	144, 145
	Condiment Jar	2	141
	Indeterminate Bottle	2	139
	Indeterminate Container Fragments	89.0 grams	146
	Industrial Ceramic	1	264
	Kitchenware Storage Jar	1	263
	Tableware Plate	1	254
	Tableware Teacup	3	253, 260, 262
	Tableware Vessel	8	255-259, 261
	Total*	189	

**Total does not include grams*

Table 6.2.1–4

Cultural Materials Recovered From Test Unit 1

Site SDI-10,963 Locus 1

Cultural Material	Depth (cm)					Total	Percent
	0-10	10-20	20-30	30-40	40-50		
Prehistoric Lithic	2	1	-	-	-	3	1.59
Ceramic	5	12	34	10	14	75	39.68
Composite	-	-	-	1	-	1	0.53
Glass	9	17	34	41	9	110	58.20
Bulk Items							
Glass	138.7	206.3	340.4	183.0	89.0	957.4	-
Marine Shell	4.9	7.6	27.2	25.1	5.6	70.4	
Total*	16	30	68	52	23	189	100.00
Percent	8.47	15.87	35.98	27.51	12.17	100.00	

**Totals do not include grams*

Table 6.2.1–5
Functional Categories Represented By
Cultural Materials Recovered From Test Unit 1
Site SDI-10,963 Locus 1

Cultural Material	Depth (cm)					Total	Percent
	0-10	10-20	20-30	30-40	40-50		
Prehistoric Lithic	2	1	-	-	-	3	1.59
Building Materials	2	4	13	-	1	20	10.58
Consumer Items	7	11	20	33	9	80	42.33
Household Items	1	5	11	2	-	19	10.05
Kitchen Items	3	8	23	10	13	57	30.16
Personal Items	1	1	1	6	-	9	4.76
Transportation Items	-	-	-	1	-	1	0.53
Bulk Items							
Building Materials	-	-	9.8	15.4	-	25.2	-
Consumer Items	138.7	206.3	330.6	153.7	89.0	918.3	
Household Items	-	-	-	5.6	-	5.6	
Personal Items	-	-	-	8.3	-	8.3	
Marine Shell	4.9	7.6	27.2	25.1	5.6	70.4	
Total*	16	30	68	52	23	189	100.00
Percent	8.47	15.87	35.98	27.51	12.17	100.00	

**Totals do not include grams*

Discussion

Site SDI-10,963 Locus 1 is a multicomponent locus encompassing 23,629.6 square feet (2,195 square meters) in the southwestern portion of the APE. The surface assemblage is mainly comprised of a sparse prehistoric lithic scatter consisting of flake tools, debitage, cores, and adzes. Prehistoric material comprised 10.12 percent of the total assemblage. The prehistoric elements of the locus represent a common example of the Otay Smear, and likely a secondary deposit of historic or modern refuse material distributed within the general area through past agricultural and refuse disposal activities.

Historic material was concentrated within the eastern section of the locus, just west of a north to south trending dirt road. The historic materials represented at the site are predominantly glass (N=145; 56.42 percent) along with 1,318.8 grams of bulk glass, followed by ceramic (N=82; 31.91 percent), composite (N=3; 1.17 percent), and metal (N=1; 0.39 percent) (Table 6.2.1–6).

Table 6.2.1–6
Cultural Materials Recovered From Site SDI-10,963 Locus 1

Cultural Material	Recovery			Total	Percent
	SC	STP	TU		
Prehistoric Lithic	23	-	3	26	10.12
Ceramic	2	5	75	82	31.91
Composite	1	1	1	3	1.17
Glass	3	32	110	145	56.42
Metal	-	1	-	1	0.39
Bulk Items					
Glass	-	361.3	957.5	1,318.8	-
Marine Shell	-	21.0	70.5	91.5	
Total*	29	39	189	257	100.00†
Percent	11.28	15.18	73.54	100.00	

**Totals do not include grams*

†Rounded totals may not equal 100.00 percent

All 231 diagnostic historic artifacts were identifiable to various functional categories (Table 6.2.1–7). The majority of diagnostic items recovered from SDI-10,963 Locus 1 are classified as consumer items (N=108; 42.02 percent), followed by kitchen items (N=62; 24.12 percent), building material (N=22; 8.56 percent), household items (N=21; 8.17 percent), personal items (N=14; 5.45 percent), and transportation items (N=4; 1.56 percent).

Table 6.2.1–7
Functional Categories Represented by
Cultural Materials Recovered From Site SDI-10,963 Locus 1

Functional Category	Recovery			Total	Percent
	SC	STP	TU		
Prehistoric Lithic	23	-	3	26	10.12
Building Materials	1	1	20	22	8.56
Consumer Items	1	27	80	108	42.02
Household Items	-	2	19	21	8.17
Kitchen Items	1	4	57	62	24.12
Personal Items	2	3	9	14	5.45
Transportation Items	1	2	1	4	1.56

Functional Category	Recovery			Total	Percent
	SC	STP	TU		
Building Materials	-	20.1	25.1	45.2	-
Consumer Items	-	341.2	918.5	1,259.7	
Household Items	-	-	5.6	5.6	
Personal Items	-	-	8.3	8.3	
Marine Shell	-	21.0	70.5	91.5	
Total	29	39	189	257	100.00
Percent	11.28	15.18	73.54	100.00	

Consumer items such as condiment and beverage bottles as are the most directly useful artifacts in terms of dating the historic use of the locus since they would have been used over a short period and then be discarded. Temporally diagnostic consumer items collected from the site include various alcohol and beverage bottles and a condiment jar. Utilizing the known manufacturing date range of the temporally diagnostic material the trash deposit has a date range overlap between 1957 and 1959. The date of deposition indicates the material was likely buried in the mid-twentieth century and likely represents a single episode of rural trash disposal within the locus.

Table 6.2.1–8

Temporally Diagnostic Items Recovered From Site SDI-10,963 Locus 1

Date Range	Object Type	Manufacturer	Quantity	Cat. No. (s)
1905-1969	Beverage (Soda) Bottle	-	1	183
1915-1967		Coca Cola Co.	2	133, 155
1923-1959	Alcohol Bottle	Thatcher Glass Manufacturing Co.	1	117
	Beverage Bottle		1	200
	Indeterminate Bottle		1	147
1935-1965	Alcohol Bottle	-	1	143
1940-1964	Condiment Jar	Hazel-Atlas Glass Co.	1	36
1940-1969	Beverage (Soda) Bottle	-	1	184
1940-1980	Indeterminate Bottle	Glass Containers Corp.	1	119
1954-1968		Owens Illinois Glass Co.	4	78, 79, 81, 84
1957-1989		Latchford Glass Co.	1	80
		Total	15	

Summary

The investigation of Site SDI-10,963 Locus 1 revealed a sparse concentration of prehistoric surface lithic material. The integrity of the prehistoric component appears to have been impacted by the agricultural use and disposal of refuse on the property. A limited number of prehistoric surface artifacts were identified within the locus and shovel test investigations did not identify any prehistoric subsurface deposits at the site. A historic trash deposit was also located within the eastern section of the locus which represents a common example of rural refuse buried on site during the mid-twentieth century. The presence of a limited amount of marine shell and three pieces of debitage within the historic trash deposit indicates that this material was mixed with the trash at the time of disposal, and is not an indicator of any prehistoric subsurface component. Further, Locus 1 is located within the area previously determined by Gallegos & Associates to contain small fragments of marine shell within undocumented fill and to be highly disturbed (Guerrero et al. 2005). Due to a lack of research potential, Site SDI-10,963 Locus 1 is evaluated as not CEQA-significant. The level of information already obtained from this locus, including documentation of boundaries and the collection of the surface artifacts, has exhausted its research potential. No further archaeological investigations are recommended for Site SDI-10,963 Locus 1.

6.2.2 Site SDI-10,963 Locus 2

Site SDI-10,963 Locus 2 is located within the northwestern section of the APE and the northwestern section of SDI-10,963. The locus is situated along a dirt road approximately 270 meters west of the intersection of Airway Road and Cactus Road on the mesa overlooking Spring Canyon (see Figure 6.1–1). Disturbances at the site include natural erosion, bioturbation in the form of small mammal burrows, impacts from previous grading for agricultural activities, and modern trash deposition. As the STPs did not contain any substantial prehistoric subsurface material, the locus boundary was defined by the surface artifacts measuring 177.2 feet (54 meters) from north to south and 75.5 feet (23 meters) from east to west, covering an area of 7078.4 square feet (657.6 square meters). The setting of the site is shown in Plate 6.2.2–1.

Plate 6.2.2–1: Overview of Site SDI-10,963 Locus 2, facing northeast.

Surface Collection

The entire surface of the APE surrounding Locus 2 was inspected for artifacts and features. Prehistoric lithic material was collected from the surface of the locus. The surface collected prehistoric artifacts consisted of metavolcanic flake tools, debitage, a core, and adzes. In the field, material was collected from 19 surface collection locations (SC-1 through -19). Through laboratory analysis of the material, SC-4, -6, -8, -10, -12, and -14 were determined to not be cultural material and removed from any further analysis. The mapped locations of the surface collection areas and the configuration of Site SDI-10,963 Locus 2 is shown on Figure 6.2.2–1 while detailed surface collection information is presented in Table 6.2.2–1.

<u>Figure 6.2.2–1</u>
Excavation Location Map
Site SDI-10,963 Locus 2

(Deleted for Public Review; Bound Separately)

Table 6.2.2–1
Surface Collection Data
Site SDI-10,963 Locus 2

Surface Collection	Object Type	Material Type	Quantity	Cat. No. (s)
1	Debitage	Metavolcanic	2	279
2	Debitage		1	280
3	Debitage		1	281
5	Flake Tool		1	282
7	Debitage		2	283
9	Debitage		2	284
11	Flake Tool		1	285
13	Debitage		2	286
	Core		1	287
15	Adze		1	288
16	Debitage		1	289
17	Debitage		2	290
18	Adze		1	291
19	Flake Tool		2	292, 293
	Adze		1	294
		Total	21	

Subsurface Excavation

The potential for subsurface archaeological deposits at Site SDI-10,963 Locus 2 was investigated by excavating 11 STPs (see Figure 6.2.2–1). All of the shovel tests were excavated in decimeter levels to a minimum of 30 centimeters or until bedrock was encountered. The soil from the shovel tests can be characterized as either semi-compact medium brown (7.5YR 4/2) silty sand and semi-compact medium brown (7.5YR 4/2) clayey silty loam. STP 1 and 3 both contained lithic debitage while one lithic core was recovered from STP 9. All the material recovered from the STPs was located within the first 10 centimeters and was likely deposited through the modern disturbances to the locus such as maintenance of the dirt road and agricultural practices within the general vicinity. Therefore, the STP data does not indicate any subsurface components to the locus (Table 6.2.2–2).

Table 6.2.2–2
Shovel Test Excavation Data
Site SDI-10,963 Locus 2

Shovel Test	Depth (cm)	Object Type	Quantity	Cat. No.(s)
1	0-10	Debitage	2	276
	10-20	No Recovery		
	20-30			
2	0-10	No Recovery		
	10-20			
	20-30			
3	0-10	Debitage	1	277
	10-20	No Recovery		
	20-30			
4	0-10	No Recovery		
	10-20			
	20-30			
5	0-10	No Recovery		
	10-20			
	20-30			
6	0-10	No Recovery		
	10-20			
	20-30			
7	0-10	No Recovery		
	10-20			
	20-30			
8	0-10	No Recovery		
	10-20			
	20-30			
9	0-10	Core	1	278
	10-20	No Recovery		
	20-30			
10	0-10	No Recovery		
	10-20			
	20-30			
11	0-10	No Recovery		
	10-20			
	20-30			
		Total	4	

Discussion

Site SDI-10,963 Locus 2 is a small area of scattered prehistoric artifacts encompassing 7,078.4 square feet (657.6 square meters) in the northwestern portion of the APE and the northwestern section of SDI-10,963. A limited number of surface artifacts were identified and collected from the site. Subsurface excavations did not yield any substantial archaeological material. Because of the sparse amount of cultural material and lack of any subsurface component, Site SDI-10,963 Locus 2 is characterized as a small food collecting site associated with the subsistence pattern of prehistoric Native American populations that inhabited the Otay Mesa area.

Summary

The investigation of Site SDI-10,963 Locus 2 revealed that it is a sparse scatter of prehistoric lithic material. The integrity of the site appears to have been impacted by the agricultural use of this property. A limited number of surface artifacts were identified within the site boundary and shovel test investigations did not identify any substantial subsurface components to the site. Due to a lack of research potential, the site is evaluated as not CEQA-significant. The level of information already obtained from this locus, including documentation of boundaries and the collection of the surface artifacts, has exhausted its research potential. No further archaeological investigations are recommended for Site SDI-10,963 Locus 2.

6.2.3 Site SDI-10,963 Locus 3

Site SDI-10,963 Locus 3 is a perhistoric artifact scatter located within the southwestern section of SDI-10,963, just northwest of the convergence of two dirt access roads and north of Locus 1 (see Figure 6.1–1). Disturbances at the site include natural erosion, bioturbation in the form of small mammal burrows, impacts from previous grading for agricultural activities, and modern trash. As the STPs did not contain any prehistoric subsurface material, the site boundary was defined by the surface artifacts measuring 203.4 feet (62 meters) from north to south and 449.5 feet (137 meters) from east to west, covering an area of 48,308.4 square feet (4,488 square meters). The setting of the locus is shown in Plate 6.2.3–1.

Plate 6.2.3–1: Overview of Site SDI-10,963 Locus 3, facing east.

Surface Collection

The entire surface of the APE surrounding Locus 3 was inspected for artifacts and features. Prehistoric lithic material was mapped and collected from the surface of the locus. In the field material was collected from 24 surface collection locations (SC-1 through -24). Through laboratory analysis of the material, SC-2, -4, -8, -9, -11, -17, -19, -21 and -23 were determined to not be cultural material and removed from any further analysis. The surface collected prehistoric artifacts consisted of metavolcanic flake tools, debitage, cores, and adzes. The mapped locations of the surface collection areas and the configuration of Site SDI-10,963 Locus 3 is shown on Figure 6.2.3–1 while detailed surface collection information is presented in Table 6.2.3–1.

<u>Figure 6.2.3–1</u>
Excavation Location Map
Site SDI-10,963 Locus 3

(Deleted for Public Review; Bound Separately)

Table 6.2.3–1
Surface Collection Data
Site SDI-10,963 Locus 3

Surface Collection	Object Type	Material Type	Quantity	Cat. No.
1	Flake Tool	Metavolcanic	1	295
3	Debitage		1	296
5	Adze		1	297
6	Flake Tool		1	298
7	Adze		1	299
10	Core		1	300
	Debitage		1	301
12	Adze		1	302
	Core		1	303
	Debitage		1	304
13			1	305
14			1	306
15	Flake Tool		1	307
16	Debitage		1	308
18			1	309
20	Adze		1	310
22	Flake Tool		1	311
	Debitage		1	312
24	Adze		1	313
	Debitage		1	314
		Total	20	

Subsurface Excavation

The potential for subsurface archaeological deposits at Site SDI-10,963 Locus 3 was investigated by excavating eight STPs positioned along a north/south and an east/west axis traversing the center of the concentration (see Figure 6.2.3–1). All of the shovel tests were excavated in decimeter levels to a minimum of 30 centimeters or until bedrock was encountered. The soil from the shovel tests can be characterized as medium brown (7.5YR 4/2) silty clay. No subsurface archaeological material was recovered from the STPs (Table 6.2.3–2).

Table 6.2.3–2
Shovel Test Excavation Data
Site SDI-10,963 Locus 3

Shovel Test	Depth (cm)	Object Type	Quantity	Cat. No.(s)
1	0-10	No Recovery		
	10-20			
	20-30			
2	0-10	No Recovery		
	10-20			
	20-30			
3	0-10	No Recovery		
	10-20			
	20-30			
4	0-10	No Recovery		
	10-20			
	20-30			
5	0-10	No Recovery		
	10-20			
	20-30			
6	0-10	No Recovery		
	10-20			
	20-30			
7	0-10	No Recovery		
	10-20			
	20-30			
8	0-10	No Recovery		
	10-20			
	20-30			

Discussion

Site SDI-10,963 Locus 3 is a dispersed scatter of prehistoric lithic material encompassing 48,308.4 square feet (4488 square meters) in the southwestern portion of the APE and SDI-10,963. A limited number of surface artifacts were identified and collected from the site. Subsurface excavations did not yield any archaeological material. Because of the sparse amount of cultural material and lack of any subsurface component it is likely that Site SDI-10,963 is a common example of the Otay Smear.

Summary

The investigation of Site SDI-10,963 Locus 3 revealed that it is a sparse collection of prehistoric lithic material. The integrity of the site appears to have been impacted by the agricultural use of this property. A limited number of surface artifacts were identified and recovered within the site boundary and shovel test investigations did not identify any subsurface components to the locus. Due to a lack of research potential, Site SDI-10,963 Locus 3 is evaluated as not CEQA-significant. The level of information already obtained from this locus, including documentation of boundaries and the collection of the surface artifacts, has exhausted its research potential. No further archaeological investigations are recommended for Site SDI-10,963 Locus 3.

6.2.4 Site SDI-10,963 Locus 4

Site SDI 10,963 Locus 4 is a prehistoric artifact scatter located within the northeastern section of SDI-10,963, approximately 92 meters west of the intersection of Airway Road and Cactus Road, within the agricultural fields (see Figure 6.1–1). Disturbances at the site include natural erosion, bioturbation in the form of small mammal burrows, impacts from agricultural activities, and modern trash. As the STPs did not contain any prehistoric subsurface material, the site boundary was defined by the surface artifacts measuring 236.2 feet (72 meters) from north to south and 29.5 feet (9 meters) from east to west, covering an area of 6813.6 square feet (633 square meters). The setting of the site is shown in Plate 6.2.4–1.

Plate 6.2.4–1: Overview of Site SDI-10,963 Locus 4, facing north.

Surface Collection

The entire surface of the APE surrounding Locus 4 was inspected for artifacts and features. Prehistoric lithic material was collected from the surface of the locus. In the field, material was collected from six surface collection locations (SC-1 through -6). Through laboratory analysis of the material SC-2 through -5 were determined to not be cultural material and removed from any further analysis. The surface collected prehistoric artifacts consisted of two pieces of metavolcanic debitage and one piece of tested raw material. The mapped locations of the surface collection areas and the configuration of Site SDI-10,963 Locus 4 is shown on Figure 6.2.4–1 while detailed surface collection information is presented in Table 6.2.4–1.

<u>Figure 6.2.4–1</u>
Excavation Location Map
Site SDI-10,963 Locus 4

(Deleted for Public Review; Bound Separately)

Table 6.2.4–1
Surface Collection Data
Site SDI-10,963 Locus 4

Surface Collection	Object Type	Material Type	Quantity	Cat. No.
1	Debitage	Metavolcanic	1	315
6			1	316
	Tested Raw Material		1	317
		Total	3	

Subsurface Excavation

The potential for subsurface archaeological deposits at Site SDI-10,963 Locus 4 was investigated by excavating five STPs positioned along a north/south axis traversing the center of the concentration (see Figure 6.2.4–1). All of the shovel tests were excavated in decimeter levels to a minimum of 30 centimeters or until bedrock was encountered. The soil from the shovel tests can be characterized as loose to semi-compact brown (7.5YR 4/3) sandy clay. No subsurface archaeological material was recovered from the STPs (Table 6.2.4–2).

Table 6.2.4–2
Shovel Test Excavation Data
Site SDI-10,963 Locus 4

Shovel Test	Depth (cm)	Object Type	Quantity	Cat. No.(s)
1	0-10	No Recovery		
	10-20			
	20-30			
2	0-10	No Recovery		
	10-20			
	20-30			
3	0-10	No Recovery		
	10-20			
	20-30			
4	0-10	No Recovery		
	10-20			
	20-30			
5	0-10	No Recovery		
	10-20			
	20-30			

Discussion

Site SDI-10-963 Locus 4 is a small collection of prehistoric lithic material encompassing 6813.6 square feet (633 square meters) in the northeastern portion of the APE and SDI-10,963. A limited number of surface artifacts were identified and collected from the site. Subsurface excavations did not yield any subsurface archaeological material. Because of the sparse amount of cultural material and lack of any subsurface component, it is likely that Site SDI-10,963 Locus 4 is a common example of the Otay Smear.

Summary

The investigation of Site SDI-10,963 Locus 4 revealed that it is a sparse concentration of prehistoric lithic material. The integrity of the site appears to have been impacted by the agricultural use of this property. A limited number of surface artifacts were identified within the locus, and shovel test investigations did not identify any subsurface components. Due to a lack of research potential, the site is evaluated as not CEQA-significant. The level of information already obtained from this locus, including documentation of boundaries and the collection of the surface artifacts, has exhausted its research potential. No further archaeological investigations are recommended for Site SDI-10,963 Locus 4.

6.2.5 Site SDI-10,963 Locus 5

Site SDI-10,963 Locus 5 is a scatter of prehistoic artifactslocated within the southeastern section of SDI-10,963 within the relative center of the APE, approximately 270 meters southwest of the intersection of Airway Road and Cactus Road, within the agricultural fields (see Figure 6.1–1). Disturbances at the site include natural erosion, bioturbation in the form of small mammal burrows, impacts from previous grading for agricultural activities, and modern trash. As the STPs did not contain any prehistoric subsurface material, the site boundary was defined by the surface artifacts measuring 482.3 feet (147 meters) from north to south and 173.8 feet (53 meters) from east to west, covering an area of 79,373 square feet (7374 square meters). The setting of the site is shown in Plate 6.2.5–1.

Plate 6.2.5–1: Overview of Site SDI-10,963 Locus 5, facing south.

Surface Collection

The entire surface of the APE surrounding Locus 5 was inspected for artifacts and features. Prehistoric lithic material was collected from the surface of the locus. In the field material was collected from 19 surface collection locations (SC-1 through -19). Through laboratory analysis of the material SC-1, -3, -4, -7 through -10, -12, -15, and -17 were determined to not be cultural material and removed from any further analysis. The prehistoric artifacts collected from the site consisted of three metavolcanic adzes, five pieces of metavolcanic debitage, one metavolcanic core, one metavolcanic flake tool, and one volcanic angular hammer. The mapped locations of the surface collection areas and the configuration of Site SDI-10,963 Locus 5 is shown on Figure 6.2.5–1 while detailed surface collection information is presented in Table 6.2.5–1.

<u>Figure 6.2.5–1</u>
Excavation Location Map
Site SDI-10,963 Locus 5

(Deleted for Public Review; Bound Separately)

Table 6.2.5–1
Surface Collection Data
Site SDI-10,963 Locus 5

Surface Collection	Object Type	Material Type	Quantity	Cat. No.
2	Adze	Metavolcanic	1	318
5			1	319
6	Debitage		1	320
11	Adze		1	321
13	Angular Hammer	Volcanic	1	322
	Flake tool	Metavolcanic	1	323
14	Debitage		2	324
16			1	325
18	Core		1	326
19	Debitage		1	327
		Total	11	

Subsurface Excavation

The potential for subsurface archaeological deposits at Site SDI-10,963 Locus 5 was investigated by excavating nine STPs positioned along a north/south and an east/west axis which traversed the center of the concentration (see Figure 6.2.5–1). All of the shovel tests were excavated in decimeter levels to a minimum of 30 centimeters or until bedrock was encountered. The soil from the shovel tests can generally be characterized as semi-compact medium brown (7.5YR 4/2) silty clay loam and brown (7.5YR 4/3) loose to semi-compact silty clay. No subsurface archaeological material was recovered from the STPs (Table 6.2.5–2).

Table 6.2.5–2
Shovel Test Excavation Data
Site SDI-10,963 Locus 5

Shovel Test	Depth (cm)	Object Type	Quantity	Cat. No.(s)
1	0-10	No Recovery		
	10-20			
	20-30			
2	0-10	No Recovery		
	10-20			
	20-30			
3	0-10	No Recovery		

Shovel Test	Depth (cm)	Object Type	Quantity	Cat. No.(s)
	10-20			
	20-30			
4	0-10	No Recovery		
	10-20			
	20-30			
5	0-10	No Recovery		
	10-20			
	20-30			
6	0-10	No Recovery		
	10-20			
	20-30			
7	0-10	No Recovery		
	10-20			
	20-30			
8	0-10	No Recovery		
	10-20			
	20-30			
9	0-10	No Recovery		
	10-20			
	20-30			

Discussion

Site SDI-10,963 Locus 5 is a sparse scatter of prehistoric lithic material encompassing 79,373 square feet (7,374 square meters) in the northeastern portion of the APE and SDI-10,963. A limited number of surface artifacts were identified and collected from the site. Subsurface excavations did not yield any subsurface archaeological material. Because of the sparse amount of cultural material and lack of any subsurface component it is likely that this component of Site SDI-10,963 is a common example of the Otay Smear.

Summary

The investigation of Site SDI-10,963 Locus 5 revealed that it is a sparse scatter of prehistoric lithic material. The integrity of the site appears to have been impacted by the agricultural use of this property. A limited number of surface artifacts were identified within the locus and shovel test investigations did not identify any subsurface components. Due to a lack of research potential, the site is evaluated as not CEQA-significant. The level of information already obtained from this locus, including documentation of boundaries and the collection of the surface artifacts, has exhausted its research potential. No further archaeological investigations are recommended for Site SDI-10,963 Locus 5.

6.2.6 Site SDI-14,094

Site SDI-14,094 was recorded in 1995 by Gallegos & Associates and characterized as consisiting of four lithic flakes and a lithic core (Tift and Briggs 1995). Site SDI-14,094 was relocated during the archaeological survey. The site is located in the northwestern portion of the project, approximately 390 meters west of the intersection of Airway Road and Cactus Road, on the north facing slope overlooking Spring Canyon (see Figure 6.1–1). Disturbances at the site include natural erosion, bioturbation in the form of small mammal burrows, impacts from previous grading for agricultural activities, and modern trash. As the STPs did not contain any subsurface material, the site boundary was defined by the sparse surface artifacts measuring 3.3 feet (1 meters) from north to south and 18 feet (5.5 meters) from east to west, covering an area of 53.8 square feet (5 square meters). The setting of the site is shown in Plate 6.2.6–1.

Plate 6.2.6–1: Overview of Site SDI-14,094, facing northwest.

Surface Collection

The entire surface of the APE surrounding the recorded location of SDI-14,094 was inspected for artifacts and features. Only two prehistoric artifacts were recovered from the surface of the site. The surface collected material consisted of metavolcanic debitage. In the field, material was collected from five surface collection locations (SC-1 through -5). Through laboratory analysis of the material, SC-1, -4, and-5 were determined to not be cultural material and removed from any further analysis. The mapped locations of the surface collection areas and the configuration of Site SDI-14,094 is shown on Figure 6.2.6–1 while detailed surface collection information is presented in Table 6.2.6–1.

<u>Figure 6.2.6–1</u>
Excavation Location Map
Site SDI-14,094

(Deleted for Public Review; Bound Separately)

Table 6.2.6–1
Surface Collection Data
Site SDI-14,094

Surface Collection	Object Type	Material Type	Quantity	Cat. No.
2	Debitage	Metavolcanic	1	1
3	Debitage	Metavolcanic	1	2
		Total	2	

Subsurface Excavation

The potential for subsurface archaeological deposits at Site SDI-14,094 was investigated by excavating four STPs throughout the recorded site area in a radial pattern (see Figure 6.2.6–1). All of the shovel tests were excavated in decimeter levels to a minimum of 30 centimeters or until bedrock was encountered. The soil from the shovel tests can be characterized as medium brown (7.5YR 4/2) semi-compact silty sand grading into silty sand with large cobbles. No artifacts were recovered from the STPs excavated at Site SDI-14,094 (Table 6.2.6–2).

Table 6.2.6–2
Shovel Test Excavation Data
Site SDI-14,094

Shovel Test	Depth (cm)	Object Type	Quantity	Cat. No.(s)
1	0-10	No Recovery		
	10-20			
	20-30			
2	0-10	No Recovery		
	10-20			
	20-30			
3	0-10	No Recovery		
	10-20			
	20-30			
4	0-10	No Recovery		
	10-20			
	20-30			

Discussion

Site SDI-14,094 was originally recorded as a small sparse lithic scatter. Only two artifacts were recovered during the field investigation in an area measuring 53.8 square feet (5

square meters) in the northwestern portion of the APE. Subsurface excavations did not yield any archaeological material. Because of the sparse amount of cultural material and lack of any subsurface component, Site SDI-14,094 is characterized as a common example of the Otay Smear.

Summary

The investigation of Site SDI-14,094 revealed that only two prehistoric lithic artifacts were located within the previously recorded site boundary. The integrity of the site appears to have been impacted by the agricultural use of this property. In addition to the limited number of surface artifacts, shovel test investigations did not identify any subsurface deposits at the site. Due to a lack of research potential, the site is evaluated as not CEQA-significant. The level of information already obtained from this site, including documentation of boundaries and the collection of the surface artifacts, has exhausted its research potential. No further archaeological investigations are recommended for Site SDI-14,094

6.2.7 Site SDI-22,261

Site SDI-22,261 is a sparse scatter of prehistoric artifacts located within the eastern section of the project, outside of the recorded boundary of SDI-10,963. The site was identified during the field survey within a fenced corral just west of Cactus Road (see Figure 6.1–1). The site appears to be within a disturbed context, as aerial photographs dating back to 1953 show the corral has been cleared and used for agriculture in the past. The observed artifacts consist of sparse lithic material similar to neighboring sites within the Otay Mesa region. As the STPs did not contain any subsurface material, the site boundary was defined by the sparse surface artifacts measuring 91.8 feet (28 meters) from north to south and 27.8 feet (8.5 meters) from east to west, covering an area of 2,176.5 square feet (202 square meters). The setting of the site is shown in Plate 6.2.7–1.

Plate 6.2.7–1: Overview of Site SDI-22,261, facing east.

Surface Collection

The entire surface of the APE surrounding the recorded location of Site SDI-22,261 was inspected for artifacts and features. Only a sparse amount of prehistoric lithic material was located and collected within the boundary of the site. In the field, material was collected from five surface collection locations (SC-1 through -5). Through laboratory analysis of the material SC-1 and -5 were determined to not be cultural material and removed from any further analysis. Archaeological material consisted of a metavolcanic core and three pieces of debitage associated with the reduction of stone for the manufacture of tools. The mapped locations of the surface collection areas and the configuration of Site SDI-22,261 is shown on Figure 6.2.7–1 while detailed surface collection information is presented in Table 6.2.7–1.

<u>Figure 6.2.7–1</u>
Excavation Location Map
Site SDI-22,261

(Deleted for Public Review; Bound Separately)

Table 6.2.7–1
Surface Collection Data
Site SDI-22,261

Surface Collection	Object Type	Material Type	Quantity	Cat. No.
2	Debitage	Metavolcanic	1	1
3	Core		1	2
	Debitage		1	3
4			1	4
		Total	4	

Subsurface Excavation

The potential for subsurface archaeological deposits at Site SDI-22,261 was investigated by excavating four STPs throughout the recorded site area in a radial pattern (see Figure 6.2.7–1). All of the shovel tests were excavated in decimeter levels to a minimum of 30 centimeters or until bedrock was encountered. The soil from the shovel tests can be characterized as medium brown (10YR 4/3), moderately compact sandy clay. No artifacts were recovered from the STPs excavated at Site SDI-22,261 (Table 6.2.7–2).

Table 6.2.7–2
Shovel Test Excavation Data
Site SDI-22,261

Shovel Test	Depth (cm)	Object Type	Quantity	Cat. No.(s)
1	0-10	No Recovery		
	10-20			
	20-30			
2	0-10	No Recovery		
	10-20			
	20-30			
3	0-10	No Recovery		
	10-20			
	20-30			
4	0-10	No Recovery		
	10-20			
	20-30			
5	0-10	No Recovery		
	10-20			

Shovel Test	Depth (cm)	Object Type	Quantity	Cat. No.(s)
	20-30			

Discussion

Site SDI-22,261 is a small lithic scatter that encompasses 2,176.5 square feet (202 square meters) in the eastern portion of the APE. A limited number of surface archaeological artifacts were identified and collected from the site. Subsurface excavations did not yield any archaeological material. Because of the sparse amount of cultural material and lack of any subsurface component, Site SDI-22,261 is a characterized as part of the Otay Smear.

Summary

The investigation of Site SDI-22,261 revealed that it is a sparse scatter of prehistoric lithic material. The integrity of the site appears to have been impacted by the agricultural use of this property. A limited number of surface artifacts were identified within the site boundary and shovel test investigations did not identify any subsurface deposits at the site. Due to a lack of research potential, the site is evaluated as not CEQA-significant. The level of information already obtained from this site, including documentation of boundaries and the collection of the surface artifacts, has exhausted its research potential. No further archaeological investigations are recommended for Site SDI-22,261.

6.2.8 Isolates

The isolated artifacts collected throughout the Lumina Project APE (P-37-037030, P-37-037031, P-37-037032, P-37-037033, P-37-037034, and P-37-037035) follow the general pattern of scattered artifacts that have been documented across Otay Mesa by archaeologists. The locations of the surface finds have been illustrated in Figure 6.2.8–1 and a description of the collected material is presented in Table 6.2.8–1. Isolated artifacts mainly consisted of small flakes/debitage; however, one biface blank (Plate 6.2.8–1) was also collected. Isolated artifacts are not considered significant under CEQA and therefore were not considered within any of the site evaluations.

Table 6.2.8–1
Surface Collection Data
Lumina Project Isolates

Isolate No.	Object Type	Material Type	Quantity	Cat. No.
P-37-037030	Debitage	Metavolcanic	2	1
P-37-037031	Biface Blank		1	1
P-37-037032	Debitage		1	1
P-37-037033	Debitage		2	1
P-37-037034	Debitage		1	1
P-37-037035	Debitage		1	1

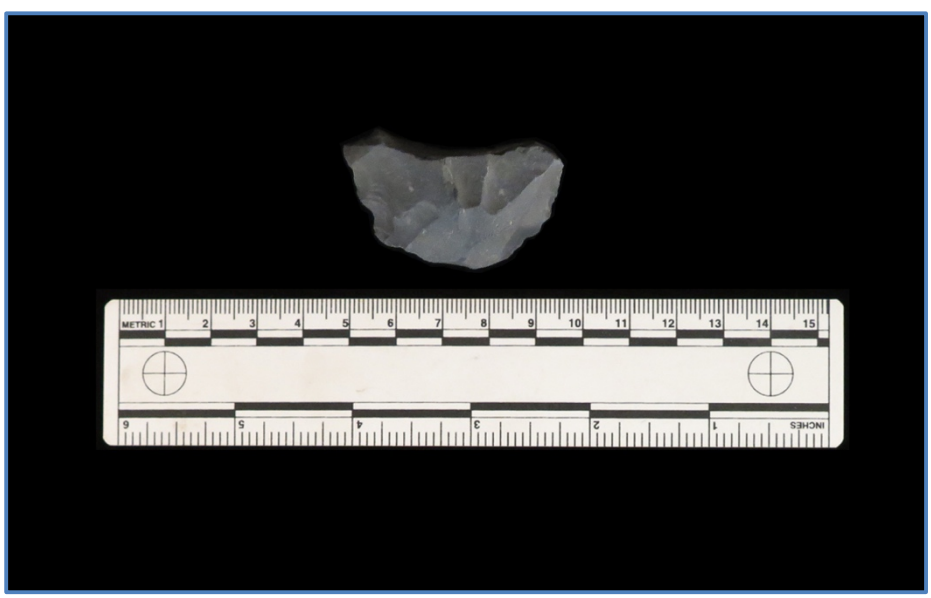


Plate 6.2.8–1: Biface blank (P-37-037031).

<u>Figure 6.2.8–1</u>
Isolate Location Map

(Deleted for Public Review; Bound Separately)

7.0 DISCUSSION/IMPACT ANALYSIS

7.1 Resource Importance

The survey of the Lumina Project identified evidence of prehistoric and historic occupation in the area. The previously recorded resources on the property, SDI-14,094 and SDI-10,963, were identified, tested, and evaluated for significance. Further, a previously unidentified historic trash deposit within Site SDI-10,963 Locus 1 and one new resource (SDI-22,261) were tested and evaluated. The subsurface testing of the resources located within the Lumina Project did not produce any significant archaeological artifacts, features, or deposits. The testing program has provided limited information that facilitated the evaluation of SDI-14,094, SDI-22,261, and the portion of SDI-10,963 within the APE as lacking archaeological significance as defined by CEQA or the City of San Diego. In addition, although mapped within offsite improvements, no elements of SDI-7208 were identified within the APE. As Site SDI-7208 has been previously evaluated as not CEQA significant and mapped only within the highly-disturbed road right-of-way, no testing occurred within these locations. The prehistoric sites located within the APE do not represent the level of focused activity that would correspond to a prehistoric occupation site. Instead, the prehistoric sites are classified as lithic scatters with no subsurface component common to the Otay Smear with reduced integrity due to historic use of the land, while the historic trash deposit is a common example of mid-twentieth century rural trash deposal. The sites located within the Lumina Project possess no residual research potential following the data collection efforts during the testing program.

7.2 Impact Identification

The proposed development for the Lumina Project property will include grading in the location of SDI-7208, SDI-10,963, SDI-14,094, and SDI-22,261. Direct impacts to the cultural sites will not be significant because the research potential of these resource within the project has been exhausted by this study. Because the sites within the Lumina Project have been determined to not be CEQA significant, no additional mitigation measures are recommended to reduce the effect of the direct impacts.

8.0 MANAGEMENT CONSIDERATIONS

The proposed development for the Lumina Project will impact known archaeological sites; however, all sites located on the subject property are evaluated as lacking any further research potential and potential impacts from the proposed development have been determined to be not significant. Based upon the evaluations of resources within the Lumina Project, site-specific mitigation measures will not be required as a condition of approval.

Although site-specific mitigation measures are not required, archaeological monitoring during ground disturbing activities is recommended because grading will expose areas that could contain buried previously undocumented cultural deposits. Given the quantity of cultural sites in this area, the potential does exist that other resources could be exposed. Therefore, monitoring of grading is recommended to prevent the inadvertent destruction of any potentially important cultural deposits that were not observed or detected during the current cultural resources study. The monitoring program shall include, but not be limited to, the following actions:

1) Prior to issuance of a grading permit, the applicant shall provide written verification in the form of a letter from the project archaeologist to the lead agency stating that a certified archaeologist has been retained to implement the monitoring program.
2) The project applicant shall provide Native American monitoring during grading. The Native American monitor shall work in concert with the archaeological monitor to observe ground disturbances and search for cultural materials.
3) The certified archaeologist shall attend the pre-grading meeting with the contractors to explain and coordinate the requirements of the monitoring program.
4) During the original cutting of previously undisturbed deposits, the archaeological monitor(s) and tribal representative shall be on-site, as determined by the consulting archaeologist, to perform periodic inspections of the excavations. The frequency of inspections will depend upon the rate of excavation, the materials excavated, and the presence and abundance of artifacts and features. The consulting archaeologist shall have the authority to modify the monitoring program if the potential for cultural resources appears to be less than anticipated.
5) Isolates and clearly non-significant deposits will be minimally documented in the field so the monitored grading can proceed.
6) In the event that previously unidentified cultural resources are discovered, the archaeologist shall have the authority to divert or temporarily halt ground disturbance operation in the area of discovery to allow for the evaluation of potentially significant cultural resources. The archaeologist shall contact the lead agency at the time of discovery. The archaeologist, in consultation with the lead agency, shall determine the significance of the discovered resources. The lead agency must concur with the evaluation before construction activities will be allowed to resume in the affected area.

For significant cultural resources, a Research Design and Data Recovery Program to mitigate impacts shall be prepared by the consulting archaeologist and approved by the lead agency before being carried out using professional archaeological methods. If any human bones are discovered, the county coroner and lead agency shall be contacted. In the event that the remains are determined to be of Native American origin, the Most Likely Descendant (MLD), as identified by the NAHC, shall be contacted in order to determine proper treatment and disposition of the remains.

7) Before construction activities are allowed to resume in the affected area, the artifacts shall be recovered and features recorded using professional archaeological methods. The project archaeologist shall determine the amount of material to be recovered for an adequate artifact sample for analysis.
8) All cultural material collected during the grading monitoring program shall be processed and curated according to the current professional repository standards. The collections and associated records shall be transferred, including title, to an appropriate curation facility, to be accompanied by payment of the fees necessary for permanent curation.
9) A report documenting the field and analysis results and interpreting the artifact and research data within the research context shall be completed and submitted to the satisfaction of the lead agency prior to the issuance of any building permits. The report will include DPR Primary and Archaeological Site Forms.

9.0 CERTIFICATION

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this archaeological report, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief, and have been compiled in accordance with CEQA criteria as defined in Section 15064.5 and the City of San Diego Historical Resources Guidelines.

June 12, 2018

Brian F. Smith
Principal Investigator

Date

10.0 REFERENCES

Affinis
2010 Site form update for CA-SDI-7208. On file at the South Coastal Information Center at San Diego State University, San Diego, California.

Bada, Jeffrey L., Roy A. Schroeder, and George F. Carter
1974 New Evidence for the Antiquity of Man in America Deduced from Aspartic Acid Racemization. *Science* 184:791-793.

Bancroft, Hubert Howe
1886 *History of California,* Volume V; 1846-1848. The History Company, San Francisco, California.

Beauchamp, R. Mitchel
1986 *A Flora of San Diego County, California*. Sweetwater River Press, National City, California.

Biehler, Shawn
1979 *Bouguer Gravity Map of California*: San Diego–El Centro Sheet. California Division of Mines and Geology, Sacramento, California.

Blick, James D.
1976 Agriculture in San Diego County. In *San Diego – An Introduction to the* Area, edited by Philip J. Pryde, pp. 121-135. Kendall/Hunt Publishing Company, Dubuque, Iowa.

Bowden-Renna
2011 Letter Report: ETS 21839 – Cultural Resources Monitoring of Pole Replacement Activities for Pole P89056, Otay Mesa Area, San Diego County, California – IO 7011102. AECOM. Unpublished report on file at the South Coastal Information Center, San Diego State University, San Diego, California.

Bray, Madeleine
2012 Metropolitan Airpark Off-Site Road Widening Supplemental Cultural Resources Survey. ESA Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Bray, Madeleine and Brad Brewster
2011 Final Cultural Resources Survey and Assessment for the Metropolitan Airpark Project, Otay Mesa, San Diego CA. ESA. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Brewster, Brad
2011 Metropolitan Airpark Project, Otay Mesa, San Diego, CA- Historic Resources Assessment. ESA. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Brian F. Smith and Associates, Inc.
Various dates. Research library holdings including Sanborn maps, city directories, published regional histories, aerial photographs, and geologic and paleontological references.

Brunzell, David
2014 Cultural Resources Monitoring Results for AT&T Site SD0687, San Diego, San Diego County, California (BCR Consulting Job No. Ace1401). BCR Consulting. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Bull, Charles S.
1983 Shaking the Foundations: The Evidence for San Diego Prehistory. *Cultural Resource Management Casual Papers* 1(3):15-64. Department of Anthropology, San Diego State University, San Diego, California.

1987 A New Proposal: Some Suggestions for San Diego Prehistory. In *San Dieguito-La Jolla: Chronology and Controversy*, edited by Dennis Gallegos, pp. 35-42. San Diego County Archaeological Society Research Paper No. 1.

Bull, Charles and Russell Kaldenberg
1976 Archaeological Investigations at the World Medical Foundation. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Buysse, Johnna L., Maynard B. Cliff, and Floyd B Largent Jr.
1999 Cultural Resources Testing of Site CA-SDI-10808 and The Testing and Mitigation of Site CA-SDI-100809 In Spring Canyon, San Diego County, California. Johnna L. Buysse. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Cardenas, D. Sean
1986 Avocado Highlands: An Inland Late La Jolla and Preceramic Yuman Site from Southern San Diego County. *Cultural Resource Management Casual Papers* 2(2):59-84. Department of Anthropology, San Diego State University, San Diego, California.

Carolyn, Kyle
2002 Cultural Resource Survey for the Las Californias Center Project City of San Diego, California. Kyle Consulting. Unpublished report on file at the South Coastal

Information Center at San Diego State University, San Diego, California.

Carrico, Richard

1974 Archaeological Survey of the Proposed Otay Mesa International Border Crossing. Westec Services, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1982 Archaeological Survey of the United States Border Patrol Station Alternate Brown Field Site, San Diego, California. Westec Services, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Carrico, Richard L. and Clifford V.F. Taylor

1983 Excavation of a Portion of Ystagua: A Coastal Valley Ipai Settlement. Environmental Impact Report on file at the City of San Diego, Environmental Quality Division.

Carrico, Richard L., Theodore Cooley, and Andrew Pigniolo

1992 Draft Final Cultural Resources Evaluation of the 23,088-acre Otay Ranch. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Carter, George F.

1957 *Pleistocene Man at San Diego.* Johns Hopkins Press, Baltimore.

1980 *Earlier than You Think: A Personal View of Man in America.* Texas A&M University Press, College Station.

Case, Robert P.

2003a Cultural Resources Survey of the Proposed Otay Mesa Southview Subdivision, City of San Diego, California. Mooney & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2003b Cultural Resources Survey of the Proposed Otay Mesa Southview Subdivision, City of San Diego, California. Mooney and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2005 Cultural Resources Survey of the Proposed Otay Mesa Southview Subdivision City of San Diego, California. Mooney & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Caterino, David
2005 The Cemeteries and Gravestones of San Diego County: An Archaeological Study. David Caterino. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Caughey, John W.
1970 *California: A Remarkable State's Life History* (Third Edition). Prentice-Hall, Englewood Cliffs, New Jersey.

Chapman, Charles E.
1925 *A History of California: The Spanish Period*. The Macmillan Company, New York.

Chartkoff, Joseph L. and Kerry Kona Chartkoff
1984 *The Archaeology of California*. Stanford University Press, Stanford, California.

Cheever, Dayle
1987 Test and Evaluation for Twelve Archaeological Sites within the Proposed Spring Canyon Development Otay Mesa Region, San Diego, California. Westec. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1999 (Results of A) Cultural Resource Phase I Survey of the Ostrow Property, Otay Mesa, City of San Diego. Dayle Cheever. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Cheever, Dayle and Mcmillan Davis
1988 Cultural Resource Survey and Test Excavations at the Pacific Business Park Otay Mesa, California. Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Cheever, Dayle M. and Dennis Gallegos
1987 Test and Evaluation for Twelve Archaeological Sites within the Proposed Spring Canyon Development Otay Mesa Region, San Diego, California. Westec Services, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

City of San Diego
Various dates. City ordinances. San Diego City Clerk.

1981 Draft Environmental Impact Report Brown Field Master Plan & Comprehensive Land Use Plan. City of San Diego. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1999a Draft - Comprehensive Land Use Plan for Brown Field, San Diego, California. City

of San Diego. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1999b Public Notice of Proposed Mitigated Negative Declaration-Ostrow Property. City of San Diego. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2002 Public Notice of a Proposed Negative Declaration for Las Californias Center. Development Services Dept. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2005 Draft Environmental Impact Report for the Otay Mesa Trunk Sewer Project. City of San Diego. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2013a Draft Program Environmental Impact Report for the Otay Mesa Community Plan Update, City of San Diego Project Number 30330/304032. City of San Diego. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2013b Final Program Environmental Impact Report for the Otay Mesa Community Plan Update, City of San Diego. City of San Diego. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Clevenger, Joyce M. and Allan J. Schilz

1989 Archaeological Investigations of the La Salle Property, Otay Mesa, City of San Diego, California. ERC Environmental and Energy Services Company. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Connolly, Michael T.

2016 ETS #33668, Cultural Resources Survey for Metropolitan Airpark Relocation, Otay Mesa, San Diego County, California. Connolly, Michael T. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Cook, John and Drew Pallette

1994 Archaeological Testing and NR Eligibility For JTF-6 Border Lighting Project, Otay Mesa Border Lighting Project. Brian F. Mooney. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Cooley, Theodore

1982 Analysis and Interpretation of CA-LAN-844: A Prehistoric Quarry Workshop and

Factory in the Upper Palos Verdes Hills, Los Angeles County, California. Unpublished Master's Thesis, Department of Anthropology, California State University, Los Angeles, California.

Crouch, Herbert
1915 Reminiscences, 1868-1915. Unpublished manuscript, California Room, San Diego Public Library; and SDHS Library, Serra Museum.

Davis, Emma Lou
1976 Two Dated La Jolla Burials and Their Place in California Prehistory: A Review. *Pacific Coast Archaeological Society Quarterly* 12(4):1-44.

Davis, Emma Lou, Clark W. Brott, and David L. Weide
1969 *The Western Lithic Co-Tradition*. San Diego Museum Papers No. 6. San Diego Museum of Man, San Diego.

Elliott, Wallace W.
1883 *History of San Bernardino and San Diego Counties* (1965 Edition). Riverside Museum Press, Riverside, California.

Engelhardt, Zephryn
1920 *San Diego Mission*. James M. Barry Company, San Francisco.

ESA Associates
2012 Metropolitan Airpark Project. ESA Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Ezell, Paul H.
1983 A New Look at the San Dieguito Culture. *Cultural Resource Management Casual Papers* 1(3):103-109. Department of Anthropology, San Diego State University, San Diego, California.

1987 The Harris Site – An Atypical San Dieguito Site, or Am I Beating a Dead Horse? In *San Dieguito-La Jolla: Chronology and Controversy*, edited by Dennis R. Gallegos, pp. 15-22. San Diego County Archaeological Society Research Paper No. 1.

Flenniken, J. Jeffrey, Jeffrey A. Markos, and Terry L. Ozbun
1993 Appendix H: Lithic Analysis, Battered Implements: Mano and Metate Resharpening Tools from CA-SDI-10148. In Data Recovery Program for a Portion of Prehistoric Site CA-SDI-10148, East Mission Gorge Pump Station and Force Main, San Diego, California, edited by Carolyn Kyle and Dennis Gallegos. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego,

California.

Gallegos and Associates
2002 Cultural Resource Letter Report for the Handler Property, Otay Mesa, California. Gallegos and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Gallegos, Dennis R.
1987 A Review and Synthesis of Environmental and Cultural Material for the Batiquitos Lagoon Region. In *San Dieguito-La Jolla Chronology and Controversy*, edited by Dennis R. Gallegos, pp. 23-34. San Diego Archaeological Society Research Paper No. 1.

1990 Cultural Resource Survey for the Otay Mesa Parking Facility, San Diego, California (Dep No. 90-0866). Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1991 Antiquity and Adaptation at Agua Hedionda, Carlsbad, California. *Hunter-Gatherers of Early Holocene Coastal California*, edited by Jon M. Erlandson and Roger H. Colten, pp. 19-42. Perspectives in California Archaeology, Vol. 1. Cotsen Institute of Archaeology, University of California, Los Angeles.

1999 Historic Property Survey Report for the State Route 905. Gallegos and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Gallegos, Dennis R. and Carolyn E. Kyle
1988 Five Thousand Years of Maritime Subsistence at Ballast Point Prehistoric Site SDI-48 (W-164) San Diego, California. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Gallegos Dennis and Monica Guerrero
2001 Cultural Resources Technical Report for the Otay Mesa Generating Project - Gas Line Corridor San Diego, California. Gallegos and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Gallegos, Dennis, Carolyn Kyle, and Roxana L. Phillips
1997 Historic Property Survey Report, San Diego, California. Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Gallegos, Dennis R., Monica Guerrero, and Roxana L. Phillips.
2002 Cultural Resource Inventory for the Coastal Bluff Erosion Control Project La Jolla,

San Diego, California. Gallegos and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Gallegos, Dennis R., J. Jeffrey Flenniken, Tracy A. Stropes, Monica Guerrero, and Brian Hatoff
2003 Cultural Resource Data Recovery Program for CA-SDI-9975, Otay Mesa, San Diego County, California. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Gallegos, Dennis, Adella Schroth, Carolyn Kyle, and Patricia Mitchell
1998 Management Plan for Otay Mesa Prehistoric Resources, San Diego, California. Prepared as Part of the Section 106 Study Conducted for State Route 905, 11-SD-905, P.M. 5.7/12.0, 093160. Gallegos and Associates, Carlsbad. Report submitted to Caltrans District 11, San Diego, and City of San Diego Planning Department. Unpublished report on file, South Coastal Information Center at San Diego State University, San Diego, California.

Goralogia, Elena C. and Smith, Brian F.
2016 Cultural Resource Monitoring Report for the Continental Commerce Center Project City of San Diego Project No. 334882. Brian F. Smith and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Gordinier, Jerry G.
1966 Problems of Settlement in the San Diego Foothills. Unpublished Master's thesis, San Diego State College, San Diego.

Gross, Timothy
2003 Archaeological Resources Survey, Schmidt Britannia Parcel, Otay Mesa, San Diego, California. City of San Diego Planning and Development Review Department. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Guerrero, Monica and Dennis R. Gallegos
2003a Cultural Resource Survey for the San Diego Storage Trailers Project San Diego County, California. Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2003b Cultural Resource Survey for the San Diego Storage Trailers Project Otay Mesa, California. Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2005 Historical Resource Inventory for the Otay Mesa Trunk Sewer Project Otay Mesa, California. Gallegos & Associates. Unpublished report on file at the South Coastal

Information Center at San Diego State University, San Diego, California.

2006 Historical Resources Test Report for the Crown Enterprises, Inc. Parcel, Otay Mesa, California. Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Guerrero, Monica, Tracy Stropes, Stephen Van Wormer, Susan Walter, and Dennis R. Gallegos
2005 Historical Resources Report for the Spring Canyon Ranch Project Otay Mesa, California. Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Hector, Susan
1986 Archaeological Testing Program At SDI-7208 Brown Field Industrial Park, Otay Mesa City of San Diego, California. Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1984 Otay 82-Acre Archaeological Survey. Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1986a Pacific Scene Property Cultural Resources, SDI-10185 (SDM-W-3578) and SDI-10186 (SDM-W-3579) (Recon Number R-1584). Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1986b Archaeological Survey of Brown Field Industrial Park (Recon Number R-1612). Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1987a Results of Mitigation Program for Area Sites SDI-10621a & SDI 10,619 Otay Mesa International Business Center. Susan Hector. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1987b Cultural Resources for Otay Mesa Business Park (Recon No. R-1648a). Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1988 Archaeological Mitigation Program for Prehistoric Site SDI-10185 A and C Pacific Gateway, Otay Mesa. Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Hector, Susan M. and Sue A. Wade
1987 Archaeological Testing Program At SDI-10185, Loci A-C, and SDI-10186 Otay Mesa, City of San Diego California. Recon. Unpublished report on file at the South

Coastal Information Center at San Diego State University, San Diego, California.

Heiges, Harvey
1976 The Economic Base of San Diego County. In *San Diego – An Introduction to the Region*, edited by Philip R. Pryde, pp. 137-148. Kendall/Hunt Publishing Company, Dubuque, Iowa.

Kidder, Fred W.
1984 Archaeological Survey of Two Sewerline Routes: Proposed Otay Mesa Prison Site, San Diego, California. CRM Center SDSU. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Kristin Tennesen
2013 ETS #24738.03, Cultural Resources Monitoring for the Intrusive Pole Inspections, Metro District, Sub-Areas Bord, Snys, Impe, Otay, Sbay, Hilt, Mont, Ssde, Linc Project, San Diego County, California (Hdr #207357). HDR. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2015 ETS #22164, Cultural Resources Monitoring for the C1202: San Ysidro, Install New 12 Kv Circuit Project, San Diego County, California. HDR. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Kyle, Carolyn
1998 Cultural Resource Survey for the Mission City Auto Auction Project, Otay Mesa Area. Kyle Consulting. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2002a Cultural Resource Survey for the Las Californias Center Project City of San Diego, California. Kyle Consulting. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2002b Cultural Resource Survey for the Las California Center Project City of San Diego, California. Kyle Consulting. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2003 Cultural Resource Survey for the Las Californias Center Project, City of San Diego, California. Kyle Consulting. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Kyle, Carolyn E. and Dennis R. Gallegos
1993 Data Recovery Program for a Portion of Prehistoric Site CA-SDI-10148, East Mission Gorge Pump Station and Force Main, San Diego, California. Unpublished

report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Kyle, Carolyn E., Adella B. Schroth, and Dennis R. Gallegos

1990 Early Period Occupation at the Kuebler Ranch Site SDI-8,654 Otay Mesa, San Diego County, California. Prepared for County of San Diego Department of Public Works by ERCE Environmental and Energy Services Co., San Diego.

1997 Route 905 Cultural Resources Test Report for Sites CA-SDI-6941, Loci G and Y; CA-SDI-11423, and CA-SDI-11424. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1998 Remington Hills Archaeological Data Recovery Program for Prehistoric Site CA-SDI-11079, Otay Mesa, San Diego, California. Unpublished manuscript on file, South Coastal Information Center at San Diego State University, San Diego, California.

Kyle, Carolyn, Phillips, Roxana L., Schroth, Adella B., Ni Ghablain, Sinead, and Gallegos, Dennis R.

1996 Cultural Resources Survey and Testing Report for the Otay Mesa Road Widening Project. Gallegos & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Latas, Timothy W. and Linda Roth

1991 Cultural Resources Survey Otay Mesa Road Pipeline Project (9500 Linear Feet) San Diego, CA USGS Otay Mesa 7.5 Minute Quadrangle. Timothy Latas. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Mason, Roger D. and Richard S. Shepard

1999 Cultural Resources Records Search & Survey Report for a Portion of the Cactus Road Site, Otay Mesa Area, San Diego County, California. Chambers Group, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Mason, Roger D. and Sander, Jay

2004 Cultural Resources Records Search and Survey Report for the South Otay Mesa Property, City of San Diego, San Diego County, California. Chambers Group Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Masters, Patricia M.

1988 Paleo-Environmental Reconstruction of San Diego Bay, 10,000 Years BP to Present. In *Five Thousand Years of Maritime Subsistence at Ballast Point Prehistoric Site*

SDI-48 (W-164) San Diego, California, edited by D. Gallegos, pp. 4.1-4.22. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Miller, Jaquelin Neva
1966 The Present and Past Molluscan Faunas and Environments of Four Southern California Coastal Lagoons. Master's Thesis, Scripps Institution of Oceanography, University of California at San Diego.

Minshall, Herbert L.
1976 *The Broken Stones: The Case for Early Man in California*. Copely Books, San Diego.

1989 *Buchanan Canyon: Ancient Human Presence in the Americas*. Slawson Communications, San Marcos, California.

Mooney, Brian F.
1994 Archaeological Testing and Nr Eligibility for JIF-G Border Lighting Project Otay Mesa. Brian F. Mooney. Brian F. Mooney Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Moratto, Michael J.
1984 *California Archaeology*. Academic Press, New York.

Moriarty, James R., III
1965 Cosmogeny, Rituals, and Medical Practice Among the Diegueño Indians of Southern California. *Anthropological Journal of Canada* 3(3):2-14.

1966 Culture Phase Divisions Suggested by Topological Change Coordinated with Stratigraphically Controlled Radiocarbon Dating in San Diego. *Anthropological Journal of Canada* 4(4):20-30.

1967 Transitional Pre-Desert Phase in San Diego, California. *Science* 155(3762):553-336. Scripps Institution – UCSD Contribution No. 2278.

1969 San Dieguito Complex: Suggested Environmental and Cultural Relationships. *Anthropological Journal of Canada* 7(3):2-18.

Moriarty, James Robert, III and Herbert L. Minshall
1972 A New Pre-Desert Site Discovered near Texas Street. *Anthropological Journal of Canada* 10(3):10-13.

Moyer, Cecil C.
1969 *Historic Ranchos of San Diego.* Edited by Richard F. Pourade. Union-Tribune Publishing Company, San Diego.

Ni Ghabhlain, Sinead
2011 Negative Monitoring Report Geotechnical Investigation for Brown Field Airport SDM West Taxiway A, Otay Mesa, City of San Diego, California. ASM Affiliates, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Palou, Fray Francisco
1926 *Historical Memoirs of New California*. Edited by Herbert Eugene Bolton (4 Volumes). University of California Press, Berkeley.

Pierson, Larry J.
2002a Archaeological Survey and Evaluation of Resources for the RCP Block and Brick Otay Plant. Larry J. Pierson. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2002b An Archaeological and Evaluation of Resources for the RCP Block and Brick Otay Plant. Brian F. Smith and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Pigniolo, Andrew
1992 Distribution of Piedra de Lumbre 'Chert' and Hunter-Gatherer Mobility and Exchange in Southern California. Unpublished Master's Thesis, Department of Anthropology, San Diego State University, San Diego, California.

Pigniolo, Andrew R., Kimberly D. Lauko, and Clinton J. Linton
2004 Cultural Resource Survey of The All Right Storage Project, Otay Mesa, City of San Diego, California Laguna Mountain Environmental, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Pitt, Leonard
1966 *The Decline of the Californios: A Social History of the Spanish-speaking Californians, 1846-1890.* University of California Press, Los Angeles.

Pourade, Richard F.
1967 *The Rising Tide: Southern California in the Twenties and Thirties*. The History of San Diego Volume 6. Union-Tribune Publishing Company, San Diego.

Price, Glenn W.
1967 *Origins of the War with Mexico: The Polk-Stockton Intrigue*. University of Texas

Press, Austin.

Raven-Jennings, Shelly and Brian F. Smith

1999a Final Report for Site SDI-8330/W-240 'Scraper Hill,' Escondido, California. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1999b Report of Excavations at CA-SDI-4608: Subsistence and Technology Transitions during the Mid-to-Late Holocene in San Diego County (Scripps Poway Parkway). Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Reeves, Brian O.K.

1985 Early Man in the Americas: Who, When, and Why. In *Woman, Poet, Scientist: Essays in New World Anthropology Honoring Dr. Emma Louise Davis*, edited by Thomas C. Blackburn, pp. 79-104. Ballena Press Anthropological Papers No. 29/Great Basin Foundation Cooperative Publication, Los Altos/San Diego, California.

Reeves, Brian O.K., John M.D. Pohl, and Jason W. Smith.

1986 The Mission Ridge Site and the Texas Street Question. In *New Evidence for the Pleistocene Peopling of the Americas*, edited by Alan Lyle Bryan, pp. 65-80. Center for the Study of Early Man, University of Maine at Orono.

Robbins-Wade, Mary Judith

1990 Prehistoric Settlement Pattern of Otay Mesa San Diego County, California. Unpublished Master's thesis, Department of Anthropology, San Diego State University, San Diego, California.

2003 Archaeological Resources Survey, Opus Britannia Parcel, Otay Mesa, San Diego, California. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2008a Martinez Ranch Business Park Lot 7. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2008b Archaeological Resources Survey, Britannia 40 Otay, Otay Mesa, San Diego, California. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2008c Archaeological Resources Analysis for the Master Stormwater System Maintenance Program, San Diego, California Project. No. 42891. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2008d IMS Recycling (Project No. 131765) - Archaeology (Affinis Job No. 2295). Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2009 Archaeological Resources Inventory: Martinez Ranch Outdoor Storage Project Otay Mesa, San Diego, California. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2010 Archaeological Monitoring for the Britannia 40 Otay Project, Otay Mesa, San Diego, California Project No.147108. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2011 Master Storm Water System Maintenance Program. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2014 Archaeological Resources Survey, Continental Commerce Center, Otay Mesa, San Diego, California Pts No. 334882. Affinis. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Robbins-Wade, Mary and G. Timothy Gross
1990 Historic Properties Inventory for the Southeast Otay Mesa Sludge Processing Facilities and Pipeline (Southern Sludge Processing Facility to Southeast Otay Mesa Sludge Processing Facility) San Diego, California. Butler/Roach Group. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Robbins-Wade, Mary, A. Giletti, and M. Janssen
2001 Site form update for CA-SDI-7208. On file at the South Coastal Information Center at San Diego State University, San Diego, California.

Robbins-Wade, Mary, M. Sivba, and G. Kitchen
2008 Site form update for CA-SDI-7208. On file at the South Coastal Information Center at San Diego State University, San Diego, California.

Robbins-Wade, Mary, Timothy Gross, and Sean Cardenas
1987 Cultural Resources Inventory and Assessment: California Terraces. Br & Associates Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Robinson, William Wilcox
1948 *Land in California: The Story of Mission Lands, Ranchos, Squatters, Mining Claims, Railroad Grants, Land Scrip, Homesteads*. University of California Press, Berkeley.

Rogers, Malcolm

1939 Early Lithic Industries of the Lower Basin of the Colorado River and Adjacent Desert Areas. In *San Diego Museum Papers* (No. 3 – 1989 printing). San Diego Museum of Man, San Diego, California.

1966 *Ancient Hunters of the Far West*. Edited by Richard F. Pourade, with contributions from Hannah Marie Wormington, Emma Lou Davis and Clark W. Brott. Union Tribune Publishing Company, San Diego.

Rolle, Andrew F.

1969 *California: A History* (Second Edition). Thomas Y. Crowell Company, New York.

Rosen, Martin

2010 Historic Property Survey Report for the Proposed Construction of Sr-11 and Otay Mesa Port of Entry Project. Caltrans. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Roth, Linda

1988a Site form for CA-SDI-10,963. On file at the South Coastal Information Center at San Diego State University, San Diego, California.

1998b Archaeological Investigations at Mission City Auto Auction Property 17.5 Acres San Diego, California SDM-W-3922, CA-SDI-10,963. Roth and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

San Diego Union

1868 San Diego history. 6 February. San Diego, California.

1870 San Diego history. 10 November. San Diego, California.

1872 San Diego history. 2 January. San Diego, California.

Schiltz, Allan

1989 Archaeological and Historical Resources Survey Vehicle Barrier & Drainage Works United States - Mexico International Boundary Otay Mesa San Diego, California. ERC. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Schroth, Adella B. and J. Jeffrey Flenniken

1997 Intersite Lithic Studies. In *Route 905 Cultural Resources Test Report for Sites CA-SDI-6941, Loci G and Y; CA-SDI-11423, and CA-SDI-11424*, by Carolyn E. Kyle, Adella B. Schroth, and Dennis R. Gallegos, Chapter 8. Unpublished report on file at

the South Coastal Information Center at San Diego State University, San Diego, California.

Shannon L. Loftus
2013 Cultural Resource Records Search and Site Survey AT&T Site Sd0686 Brown Field West 6180 Business Center Court San Diego, San Diego County, California 92154 CASPR# 3601626845. Ace Environmental. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Shipek, Florence
1977 A Strategy for Change: The Luiseño of Southern California. Unpublished Ph.D. dissertation on file at the University of Hawaii.

Shumway, George, Carl L. Hubbs, and James R. Moriarty III
1961 Scripps Estates Site, San Diego, California: A La Jolla Site Dated 5,460-7,370 Years Before the Present. In *Annals of the New York Academy of Sciences* 93(3):41-131.

Smith, Brian F.
1988a A Report of The Results of An Archaeological Survey and Cultural Resource Evaluation at The Robinhood Ridge Precise Plan. Brian F. Smith & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1988b A Report of The Results of An Archaeological Survey and Cultural Resource Evaluation at The Robinhood Ridge Precise Plan, Otay Mesa, City of San Diego, California. Brian F. Smith and Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1995 Results of an Archaeological Survey and the Evaluation of Cultural Resources at the Otay Ranch Sectional Planning Area One and Annexation Project. Unpublished report on file at Brian F. Smith and Associates, Inc., Poway, California.

1996 The Results of a Cultural Resource Study at the 4S Ranch. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Smith, Brian F. and J.R.K. Stropes
2018 Historic Resource Technical Report for 2160 Cactus Road, San Diego, California. Report in progress.

Smith, Brian F. and James R. Moriarty
1983 An Archaeological Evaluation of a Drainage Channel Project at the South Sorrento Business Park. Environmental Impact Report on file at the City of San Diego.

1985a The Archaeological Excavations at Site W-20, Sierra Del Mar. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1985b An Archaeological Reconnaissance of San Diego Motor Racing Park, Otay Mesa, San Diego. Report on file at the City of San Diego, Environmental Analysis Division.

Smith, Brian F. and Johnna L. Buysse
2005 Archaeological Mitigation of Impacts to Prehistoric Site CA-SDI-16397 In Spring Canyon, San Diego County. Brian F. Smith & Associates. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Smith, Brian F., Johnna Buysse, Shannon Gilbert, and Michele Tiley
2006 Rancho San Miguel Cultural Resources Data Recovery Project Mitigation, Monitoring, and Reporting Program: Excavations at Multi-Component Archaic and Late Prehistoric Residential Camps South of Mother Miguel Mountain, San Diego County. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Smith, Brian F., Michele Tiley, Larry J. Pierson, Shannon Gilbert, and Johnna Buysse
2004 Archaeological Data Recovery of Sites within the Rolling Hills Ranch Development Project, San Diego County, City of Chula Vista. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

State Historic Preservation Office (SHPO)
1995 *Instructions for Recording Historical Resources*. Office of Historic Preservation, Sacramento.

Stropes, Tracy A.
2007 *Nodule Industries of North Coastal San Diego: Understanding Change and Stasis in 10,000 Years of Lithic Technology.* Submitted to San Diego State University. Thesis/dissertation on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Stropes, Tracy A. and Brian F. Smith
2012 A Phase I Cultural Resource Study for the Rowland Auto Dismantling Project. Brian F. Smith and Associates, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Tift, Larry and Steve Briggs
1995 Site form for Site CA-SDI-14,094. On file at the South Coastal Information Center at San Diego State University, San Diego, California.

True, Delbert L.
1958 An Early Complex in San Diego County, California. *American Antiquity* 23(3):255-263.

1966 Archaeological Differentiation of the Shoshonean and Yuman Speaking Groups in Southern California. Unpublished Ph.D. dissertation, University of California at Los Angeles.

1970 Investigations of a Late Prehistoric Complex in Cuyamaca Rancho State Park, San Diego County, California. *University of California, Los Angeles Archaeological Survey Monographs* 1.

1980 The Pauma Complex in Northern San Diego County. *The Journal of New World Archaeology* 3(4):1-39

1986 Molpa, a Late Prehistoric Site in Northern San Diego County: The San Luis Rey Complex, 1983. In *Symposium: A New Look at Some Old Sites*, edited by Gary S. Breschini and Trudy Haversat, pp. 29-36. Coyote Press, Salinas.

True, Delbert L. and Eleanor Beemer
1982 Two Milling Stone Inventories from Northern San Diego County, California. *Journal of California and Great Basin Anthropology* 4(2):233-261.

True, Delbert L. and Rosemary Pankey
1985 Radiocarbon Dates for the Pauma Complex Component at the Pankey Site, Northern San Diego County, California. *Journal of California and Great Basin Anthropology* 7:240-244.

U.S. Army Corps of Engineers
1997 Draft Environment Assessment Area Lighting, Fencing, and Roadways at International Border San Diego, CA. U.S. Army Corps of Engineers. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

1998 Analysis of Additional Materials from Site CA-SDI-12259 of Immigration & Naturalization Service Border Road & Fence Construction Project in the Otay Mesa Region, San Diego, CA. U.S. Army Corps of Engineers. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

U.S. Department of Homeland Security

2011 U.S. Customs and Border Protection Remediation of Illicit Tunnel, OTM081211 Aka Edda Maria, at the U.S.-Mexico International Border in California. U.S. Department of Homeland Security. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

2012 U.S. Customs and Border Protection Remediation of CDL Tunnel at the U.S.-Mexico International Border in California. U.S. Department of Homeland Security. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

U.S. Department of The Interior

N.d. Brown Field Airport National WWII Historical District Buildings Evaluation Table. U.S. Dept. of The Interior. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Van Dyke, Theodore S.

1886 *Southern California: its Valleys, Hills, and Streams; its Animals, Birds, and Fishes; its Gardens, Farms, and Climate*. Fords, Howard, and Hulbert. New York.

Van Wormer, Stephen R., Susan Walters, and Dennis R. Gallegos

2005 (Remember the Indian School Children) Monitoring and Data Recovery Program for Casa de Aguirre and St. Anthony's Industrial School for Indians (CA-SDI-14527H): 1853-1914 Old Town, San Diego, California. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Various

N.d. Misc. Papers on the Brown Field. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Wade, Sue A. and Susan M. Hector

1991 An Archaeological Indexing Program and Preservation Plan for Site SDI-10198, Otay Corporate Center, North Otay Mesa. Recon. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Warren, Claude N.

1964 Cultural Change and Continuity on the San Diego Coast. Unpublished Ph.D. dissertation on file at the University of California, Los Angeles.

1966 *The San Dieguito Type Site: Malcolm J. Rogers' 1938 Excavation on the San Dieguito River*. San Diego Museum Papers No. 6. San Diego Museum of Man.

Warren, Claude N. and Michael G. Pavesic

1963 Shell Midden Analysis of Site SDI-603 and Ecological Implications for Cultural

Development of Batiquitos Lagoon, San Diego County, Los Angeles. University of California, Los Angeles, Archaeological Survey Annual Report, 1960-1961:246-338.

Warren, Claude N., Delbert L. True, and Ardith A. Eudey
1961 Early Gathering Complexes of Western San Diego County: Results and Interpretations of an Archaeological Survey. *Archaeological Survey Annual Report* 1960-1961. University of California, Los Angeles.

Warren, Claude N., Gretchen Siegler, and Frank Dittner
1998 Paleoindian and Early Archaic Periods. In *Prehistoric and Historic Archaeology of Metropolitan San Diego: A Historical Properties Background Study (draft)*. Prepared for and on file at ASM Affiliates, Inc., San Diego, California.

Waugh, Mary Georgie
1986 Intensification and Land-use: Archaeological Indications of Transition and Transformation in a Late Prehistoric Complex in Southern California. Unpublished Ph.D. dissertation, Department of Anthropology, University of California, Davis.

Westec
1987 Research Design for Proposed Testing of Site CA-SDI-10809, Spring Canyon, San Diego County, California. Westec Services, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Westwood, Lisa and Blumel, Wendy
2016 Draft Cultural Resources Inventory Report for Improvements at Four Intersections: Metropolitan Airpark Project, San Diego County, California. Ecorp Consulting, Inc. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Whitaker, James E.
2011 Ets #21320, Cultural Resources Survey for the Remove from Service 5 Poles, Install 5 New Poles, Cactus Road, Otay Mesa, San Diego County, California. HDR. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Wilson, Stacie
2013 Letter Report: ETS 24376- Cultural Resources Monitoring Report for Repair Activities for Pole P191593, Otay Mesa Area of San Diego County, California- IO 7011102. AECOM. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

APPENDIX A

Resumes of Key Personnel

Brian F. Smith, MA

Owner, Principal Investigator

Brian F. Smith and Associates, Inc.
14010 Poway Road • Suite A •
Phone: (858) 679-8218 • Fax: (858) 679-9896 • E-Mail: bsmith@bfsa-ca.com

Education

Master of Arts, History, University of San Diego, California **1982**

Bachelor of Arts, History, and Anthropology, University of San Diego, California **1975**

Professional Memberships

Society for California Archaeology

Experience

Principal Investigator **1977–Present**
Brian F. Smith and Associates, Inc. **Poway, California**

Brian F. Smith is the owner and principal historical and archaeological consultant for Brian F. Smith and Associates. Over the past 32 years, he has conducted over 2,500 cultural resource studies in California, Arizona, Nevada, Montana, and Texas. These studies include every possible aspect of archaeology from literature searches and large-scale surveys to intensive data recovery excavations. Reports prepared by Mr. Smith have been submitted to all facets of local, state, and federal review agencies, including the US Army Crops of Engineers, the Bureau of Land Management, the Bureau of Reclamation, the Department of Defense, and the Department of Homeland Security. In addition, Mr. Smith has conducted studies for utility companies (Sempra Energy) and state highway departments (CalTrans).

Professional Accomplishments

These selected major professional accomplishments represent research efforts that have added significantly to the body of knowledge concerning the prehistoric life ways of cultures once present in the Southern California area and historic settlement since the late 18th century. Mr. Smith has been principal investigator on the following select projects, except where noted.

Downtown San Diego Mitigation and Monitoring Reporting Programs: Large numbers of downtown San Diego mitigation and monitoring projects submitted to the Centre City Development Corporation, some of which included Strata (2008), Hotel Indigo (2008), Lofts at 707 10th Avenue Project (2007), Breeza (2007), Bayside at the Embarcadero (2007), Aria (2007), Icon (2007), Vantage Pointe (2007), Aperture (2007), Sapphire Tower (2007), Lofts at 655 Sixth Avenue (2007), Metrowork (2007), The Legend (2006), The Mark (2006), Smart Corner (2006), Lofts at 677 7th Avenue (2005), Aloft on Cortez Hill (2005), Front and

Beech Apartments (2003), Bella Via Condominiums (2003), Acqua Vista Residential Tower (2003), Northblock Lofts (2003), Westin Park Place Hotel (2001), Parkloft Apartment Complex (2001), Renaissance Park (2001), and Laurel Bay Apartments (2001).

Archaeology at the Padres Ballpark: Involved the analysis of historic resources within a seven-block area of the "East Village" area of San Diego, where occupation spanned a period from the 1870s to the 1940s. Over a period of two years, BFSA recovered over 200,000 artifacts and hundreds of pounds of metal, construction debris, unidentified broken glass, and wood. Collectively, the Ballpark Project and the other downtown mitigation and monitoring projects represent the largest historical archaeological program anywhere in the country in the past decade (2000-2007).

4S Ranch Archaeological and Historical Cultural Resources Study: Data recovery program consisted of the excavation of over 2,000 square meters of archaeological deposits that produced over one million artifacts, containing primarily prehistoric materials. The archaeological program at 4S Ranch is the largest archaeological study ever undertaken in the San Diego County area and has produced data that has exceeded expectations regarding the resolution of long-standing research questions and regional prehistoric settlement patterns.

Charles H. Brown Site: Attracted international attention to the discovery of evidence of the antiquity of man in North America. Site located in Mission Valley, in the city of San Diego.

Del Mar Man Site: Study of the now famous Early Man Site in Del Mar, California, for the San Diego Science Foundation and the San Diego Museum of Man, under the direction of Dr. Spencer Rogers and Dr. James R. Moriarty.

Old Town State Park Projects: Consulting Historical Archaeologist. Projects completed in the Old Town State Park involved development of individual lots for commercial enterprises. The projects completed in Old Town include Archaeological and Historical Site Assessment for the Great Wall Cafe (1992), Archaeological Study for the Old Town Commercial Project (1991), and Cultural Resources Site Survey at the Old San Diego Inn (1988).

Site W-20, Del Mar, California: A two-year-long investigation of a major prehistoric site in the Del Mar area of the city of San Diego. This research effort documented the earliest practice of religious/ceremonial activities in San Diego County (circa 6,000 years ago), facilitated the projection of major non-material aspects of the La Jolla Complex, and revealed the pattern of civilization at this site over a continuous period of 5,000 years. The report for the investigation included over 600 pages, with nearly 500,000 words of text, illustrations, maps, and photographs documenting this major study.

City of San Diego Reclaimed Water Distribution System: A cultural resource study of nearly 400 miles of pipeline in the city and county of San Diego.

Master Environmental Assessment Project, City of Poway: Conducted for the City of Poway to produce a complete inventory of all recorded historic and prehistoric properties within the city. The information was used in conjunction with the City's General Plan Update to produce a map matrix of the city showing areas of high, moderate, and low potential for the presence of cultural resources. The effort also included the development of the City's Cultural Resource Guidelines, which were adopted as City policy.

Draft of the City of Carlsbad Historical and Archaeological Guidelines: Contracted by the City of Carlsbad to produce the draft of the City's historical and archaeological guidelines for use by the Planning Department of the City.

The Mid-Bayfront Project for the City of Chula Vista: Involved a large expanse of undeveloped agricultural land situated between the railroad and San Diego Bay in the northwestern portion of the city. The study included the analysis of some potentially historic features and numerous prehistoric sites.

Cultural Resources Survey and Test of Sites Within the Proposed Development of the Audie Murphy Ranch, Riverside County, California: Project manager/director of the investigation of 1,113.4 acres and 43 sites, both prehistoric and historic—included project coordination; direction of field crews; evaluation of sites for significance based on County of Riverside and CEQA guidelines; assessment of cupule, pictograph, and rock shelter sites, co-authoring of cultural resources project report. February-September 2002.

Cultural Resources Evaluation of Sites Within the Proposed Development of the Otay Ranch Village 13 Project, San Diego County, California: Project manager/director of the investigation of 1,947 acres and 76 sites, both prehistoric and historic—included project coordination and budgeting; direction of field crews; assessment of sites for significance based on County of San Diego and CEQA guidelines; co-authoring of cultural resources project report. May-November 2002.

Cultural Resources Survey for the Remote Video Surveillance Project, El Centro Sector, Imperial County: Project manager/director for a survey of 29 individual sites near the U.S./Mexico Border for proposed video surveillance camera locations associated with the San Diego Border barrier Project—project coordination and budgeting; direction of field crews; site identification and recordation; assessment of potential impacts to cultural resources; meeting and coordinating with U.S. Army Corps of Engineers, U.S. Border Patrol, and other government agencies involved; co-authoring of cultural resources project report. January, February, and July 2002.

Cultural Resources Survey and Test of Sites Within the Proposed Development of the Menifee West GPA, Riverside County, California: Project manager/director of the investigation of nine sites, both prehistoric and historic—included project coordination and budgeting; direction of field crews; assessment of sites for significance based on County of Riverside and CEQA guidelines; historic research; co-authoring of cultural resources project report. January-March 2002.

Mitigation of An Archaic Cultural Resource for the Eastlake III Woods Project for the City of Chula Vista, California: Project archaeologist/ director—included direction of field crews; development and completion of data recovery program including collection of material for specialized faunal and botanical analyses; assessment of sites for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; co-authoring of cultural resources project report, in prep. September 2001-March 2002.

Cultural Resources Survey and Test of Sites Within the Proposed French Valley Specific Plan/EIR, Riverside County, California: Project manager/director of the investigation of two prehistoric and three historic sites—included project coordination and budgeting; survey of project area; Native American consultation; direction of field crews; assessment of sites for significance based on CEQA guidelines; cultural resources project report in prep. July-August 2000.

Cultural Resources Survey and Test of Sites Within the Proposed Lawson Valley Project, San Diego County, California: Project manager/director of the investigation of 28 prehistoric and two historic sites—included project coordination; direction of field crews; assessment of sites for significance based on CEQA guidelines; cultural resources project report in prep. July-August 2000.

Cultural Resource Survey and Geotechnical Monitoring for the Mohyi Residence Project, La Jolla, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; field survey; assessment of parcel for potentially buried cultural deposits; monitoring of geotechnichal borings; authoring of cultural resources project report. Brian F. Smith and Associates, San Diego, California. June 2000.

Enhanced Cultural Resource Survey and Evaluation for the Prewitt/Schmucker/Cavadias Project, La Jolla, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; direction of field crews; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. June 2000.

Cultural Resources Survey and Test of Sites Within the Proposed Development of the Menifee Ranch, Riverside County, California: Project manager/director of the investigation of one prehistoric and five historic sites—included project coordination and budgeting; direction of field crews; feature recordation; historic structure assessments; assessment of sites for significance based on CEQA guidelines; historic research; co-authoring of cultural resources project report. February-June 2000.

Salvage Mitigation of a Portion of the San Diego Presidio Identified During Water Pipe Construction for the City of San Diego, California: Project archaeologist/director—included direction of field crews; development and completion of data recovery program; management of artifact collections cataloging and curation; data synthesis and authoring of cultural resources project report in prep. April 2000.

Enhanced Cultural Resource Survey and Evaluation for the Tyrian 3 Project, La Jolla, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. April 2000.

Enhanced Cultural Resource Survey and Evaluation for the Lamont 5 Project, Pacific Beach, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. April 2000.

Enhanced Cultural Resource Survey and Evaluation for the Reiss Residence Project, La Jolla, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. March-April 2000.

Salvage Mitigation of a Portion of Site SDM-W-95 (CA-SDI-211) for the Poinsettia Shores Santalina Development Project and Caltrans, Carlsbad, California: Project achaeologist/ director—included direction of field crews; development and completion of data recovery program; management of artifact collections cataloging and curation; data synthesis and authoring of cultural resources project report in prep. December 1999-January 2000.

Survey and Testing of Two Prehistoric Cultural Resources for the Airway Truck Parking Project, Otay Mesa, California: Project archaeologist/director—included direction of field crews; development and completion of testing recovery program; assessment of site for significance based on CEQA guidelines; authoring of cultural resources project report, in prep. December 1999-January 2000.

Cultural Resources Phase I and II Investigations for the Tin Can Hill Segment of the Immigration and Naturalization Services Triple Fence Project Along the International Border, San Diego County, California: Project manager/director for a survey and testing of a prehistoric quarry site along the border—NRHP eligibility assessment; project coordination and budgeting; direction of field crews; feature recordation; meeting and coordinating with U.S. Army Corps of Engineers; co-authoring of cultural resources project report. December 1999-January 2000.

Mitigation of a Prehistoric Cultural Resource for the Westview High School Project for the City of San Diego, California: Project archaeologist/ director—included direction of field crews; development and completion of data recovery program including collection of material for specialized faunal and botanical analyses; assessment of sites for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; co-authoring of cultural resources project report, in prep. October 1999-January 2000.

Mitigation of a Prehistoric Cultural Resource for the Otay Ranch SPA-One West Project for the City of Chula Vista, California: Project archaeologist/director—included direction of field crews; development of data recovery program; management of artifact collections cataloging and curation; assessment of

site for significance based on CEQA guidelines; data synthesis; authoring of cultural resources project report, in prep. September 1999-January 2000.

Monitoring of Grading for the Herschel Place Project, La Jolla, California: Project archaeologist/ monitor—included monitoring of grading activities associated with the development of a single-dwelling parcel. September 1999.

Survey and Testing of a Historic Resource for the Osterkamp Development Project, Valley Center, California: Project archaeologist/ director—included direction of field crews; development and completion of data recovery program; budget development; assessment of site for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; authoring of cultural resources project report. July-August 1999.

Survey and Testing of a Prehistoric Cultural Resource for the Proposed College Boulevard Alignment Project, Carlsbad, California: Project manager/director —included direction of field crews; development and completion of testing recovery program; assessment of site for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; authoring of cultural resources project report, in prep. July-August 1999.

Survey and Evaluation of Cultural Resources for the Palomar Christian Conference Center Project, Palomar Mountain, California: Project archaeologist—included direction of field crews; assessment of sites for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; authoring of cultural resources project report. July-August 1999.

Survey and Evaluation of Cultural Resources at the Village 2 High School Site, Otay Ranch, City of Chula Vista, California: Project manager/director —management of artifact collections cataloging and curation; assessment of site for significance based on CEQA guidelines; data synthesis; authoring of cultural resources project report. July 1999.

Cultural Resources Phase I, II, and III Investigations for the Immigration and Naturalization Services Triple Fence Project Along the International Border, San Diego County, California: Project manager/director for the survey, testing, and mitigation of sites along border—supervision of multiple field crews, NRHP eligibility assessments, Native American consultation, contribution to Environmental Assessment document, lithic and marine shell analysis, authoring of cultural resources project report. August 1997-January 2000.

Phase I, II, and II Investigations for the Scripps Poway Parkway East Project, Poway California: Project archaeologist/project director—included recordation and assessment of multicomponent prehistoric and historic sites; direction of Phase II and III investigations; direction of laboratory analyses including prehistoric and historic collections; curation of collections; data synthesis; coauthorship of final cultural resources report. February 1994; March-September 1994; September-December 1995.

Archaeological Evaluation of Cultural Resources Within the Proposed Corridor for the San Elijo Water Reclamation System Project, San Elijo, California: Project manager/director —test excavations; direction of artifact identification and analysis; graphics production; coauthorship of final cultural resources report. December 1994-July 1995.

Evaluation of Cultural Resources for the Environmental Impact Report for the Rose Canyon Trunk Sewer Project, San Diego, California: Project manager/Director —direction of test excavations; identification and analysis of prehistoric and historic artifact collections; data synthesis; co-authorship of final cultural resources report, San Diego, California. June 1991-March 1992.

Reports/Papers

Author, coauthor, or contributor to over 2,500 cultural resources management publications, a selection of which are presented below.

2015 An Archaeological/Historical Study for the Safari Highlands Ranch Project, City of Escondido, County of San Diego.

2015 A Phase I and II Cultural Resources Assessment for the Decker Parcels II Project, Planning Case No. 36962, Riverside County, California.

2015 A Phase I and II Cultural Resources Assessment for the Decker Parcels I Project, Planning Case No. 36950, Riverside County, California.

2015 Cultural Resource Data Recovery and Mitigation Monitoring Program for Site SDI-10,237 Locus F, Everly Subdivision Project, El Cajon, California.

2015 Phase I Cultural Resource Survey for the Woodward Street Senior Housing Project, City of San Marcos, California (APN 218-120-31).

2015 An Updated Cultural Resource Survey for the Box Springs Project (TR 33410), APNs 255-230-010, 255-240-005, 255-240-006, and Portions of 257-180-004, 257-180-005, and 257-180-006.

2015 A Phase I and II Cultural Resource Report for the Lake Ranch Project, TR 36730, Riverside County, California.

2015 A Phase II Cultural Resource Assessment for the Munro Valley Solar Project, Inyo County, California.

2014 Cultural Resources Monitoring Report for the Diamond Valley Solar Project, Community of Winchester, County of Riverside.

2014 National Historic Preservation Act Section 106 Compliance for the Proposed Saddleback Estates Project, Riverside County, California.

2014 A Phase II Cultural Resource Evaluation Report for RIV-8137 at the Toscana Project, TR 36593, Riverside County, California.

2014 Cultural Resources Study for the Estates at Del Mar Project, City of Del Mar, San Diego, California (TTM 14-001).

2014 Cultural Resources Study for the Aliso Canyon Major Subdivision Project, Rancho Santa Fe, San Diego County, California.

2014 Cultural Resources Due Diligence Assessment of the Ocean Colony Project, City of Encinitas.

2014 A Phase I and Phase II Cultural Resource Assessment for the Citrus Heights II Project, TTM 36475, Riverside County, California.

2013 A Phase I Cultural Resource Assessment for the Modular Logistics Center, Moreno Valley, Riverside County, California.

2013 A Phase I Cultural Resources Survey of the Ivey Ranch Project, Thousand Palms, Riverside County, California.

2013 Cultural Resources Report for the Emerald Acres Project, Riverside County, California.

2013 A Cultural Resources Records Search and Review for the Pala Del Norte Conservation Bank Project, San Diego County, California.

2013 An Updated Phase I Cultural Resources Assessment for Tentative Tract Maps 36484 and 36485, Audie Murphy Ranch, City of Menifee, County of Riverside.

2013 El Centro Town Center Industrial Development Project (EDA Grant No. 07-01-06386); Result of Cultural Resource Monitoring.

2013 Cultural Resources Survey Report for the Renda Residence Project, 9521 La Jolla Farms Road, La Jolla, California.

2013 A Phase I Cultural Resource Study for the Ballpark Village Project, San Diego, California.

2013 Archaeological Monitoring and Mitigation Program, San Clemente Senior Housing Project, 2350 South El Camino Real, City of San Clemente, Orange County, California (CUP No. 06-065; APN-060-032-04).

2012 Mitigation Monitoring Report for the Los Peñasquitos Recycled Water Pipeline.

2012 Cultural Resources Report for Menifee Heights (Tract 32277).

2012 A Phase I Cultural Resource Study for the Altman Residence at 9696 La Jolla Farms Road, La Jolla, California 92037.

2012 Mission Ranch Project (TM 5290-1/MUP P87-036W3): Results of Cultural Resources Monitoring During Mass Grading.

2012 A Phase I Cultural Resource Study for the Payan Property Project, San Diego, California.

2012 Phase I Archaeological Survey of the Rieger Residence, 13707 Durango Drive, Del Mar, California 92014, APN 300-369-49.

2011 Mission Ranch Project (TM 5290-1/MUP P87-036W3): Results of Cultural Resources Monitoring During Mass Grading.

2011 Mitigation Monitoring Report for the 1887 Viking Way Project, La Jolla, California.

2011 Cultural Resource Monitoring Report for the Sewer Group 714 Project.

2011 Results of Archaeological Monitoring at the 10th Avenue Parking Lot Project, City of San Diego, California (APNs 534-194-02 and 03).

2011 Archaeological Survey of the Pelberg Residence for a Bulletin 560 Permit Application; 8335 Camino Del Oro; La Jolla, California 92037 APN 346-162-01-00 .

2011 A Cultural Resources Survey Update and Evaluation for the Robertson Ranch West Project and an Evaluation of National Register Eligibility of Archaeological sites for Sites for Section 106 Review (NHPA).

2011 Mitigation Monitoring Report for the 43rd and Logan Project.

2011 Mitigation Monitoring Report for the Sewer Group 682 M Project, City of San Diego Project #174116.

2011 A Phase I Cultural Resource Study for the Nooren Residence Project, 8001 Calle de la Plata, La Jolla, California, Project No. 226965.

2011 A Phase I Cultural Resource Study for the Keating Residence Project, 9633 La Jolla Farms Road, La Jolla, California 92037.

2010 Mitigation Monitoring Report for the 15th & Island Project, City of San Diego; APNs 535-365-01, 535-365-02 and 535-392-05 through 535-392-07.

2010 Archaeological Resource Report Form: Mitigation Monitoring of the Sewer and Water Group 772 Project, San Diego, California, W.O. Nos. 187861 and 178351.

2010 Pottery Canyon Site Archaeological Evaluation Project, City of San Diego, California, Contract No. H105126.

2010 Archaeological Resource Report Form: Mitigation Monitoring of the Racetrack View Drive Project, San Diego, California; Project No. 163216.

2010 A Historical Evaluation of Structures on the Butterfield Trails Property.

2010 Historic Archaeological Significance Evaluation of 1761 Haydn Drive, Encinitas, California (APN 260-276-07-00).

2010 Results of Archaeological Monitoring of the Heller/Nguyen Project, TPM 06-01, Poway, California.

2010 Cultural Resource Survey and Evaluation Program for the Sunday Drive Parcel Project, San Diego County, California, APN 189-281-14.

2010 Archaeological Resource Report Form: Mitigation Monitoring of the Emergency Garnet Avenue Storm Drain Replacement Project, San Diego, California, Project No. B10062

2010 An Archaeological Study for the 1912 Spindrift Drive Project

2009 Cultural Resource Assessment of the North Ocean Beach Gateway Project City of San Diego #64A-003A; Project #154116.

2009 Archaeological Constraints Study of the Morgan Valley Wind Assessment Project, Lake County, California.

2008 Results of an Archaeological Review of the Helen Park Lane 3.1-acre Property (APN 314-561-31), Poway, California.

2008 Archaeological Letter Report for a Phase I Archaeological Assessment of the Valley Park Condominium Project, Ramona, California; APN 282-262-75-00.

2007 Archaeology at the Ballpark. Brian F. Smith and Associates, San Diego, California. Submitted to the Centre City Development Corporation.

2007 Result of an Archaeological Survey for the Villages at Promenade Project (APNs 115-180-007-3,115-180-049-1, 115-180-042-4, 115-180-047-9) in the City of Corona, Riverside County.

2007 Monitoring Results for the Capping of Site CA-SDI-6038/SDM-W-5517 within the Katzer Jamul Center Project; P00-017.

2006 Archaeological Assessment for The Johnson Project (APN 322-011-10), Poway, California.

2005 Results of Archaeological Monitoring at the El Camino Del Teatro Accelerated Sewer Replacement Project (Bid No. K041364; WO # 177741; CIP # 46-610.6.

2005 Results of Archaeological Monitoring at the Baltazar Draper Avenue Project (Project No. 15857; APN: 351-040-09).

2004 TM 5325 ER #03-14-043 Cultural Resources.

2004 An Archaeological Survey and an Evaluation of Cultural Resources at the Salt Creek Project. Report on file at Brian F. Smith and Associates.

2003 An Archaeological Assessment for the Hidden Meadows Project, San Diego County, TM 5174, Log No. 99-08-033. Report on file at Brian F. Smith and Associates.

2003 An Archaeological Survey for the Manchester Estates Project, Coastal Development Permit #02-009, Encinitas, California. Report on file at Brian F. Smith and Associates.

2003 Archaeological Investigations at the Manchester Estates Project, Coastal Development Permit #02-009, Encinitas, California. Report on file at Brian F. Smith and Associates.

2003 Archaeological Monitoring of Geological Testing Cores at the Pacific Beach Christian Church Project. Report on file at Brian F. Smith and Associates.

2003 San Juan Creek Drilling Archaeological Monitoring. Report on file at Brian F. Smith and Associates.

2003 Evaluation of Archaeological Resources Within the Spring Canyon Biological Mitigation Area, Otay Mesa, San Diego County, California. Brian F. Smith and Associates, San Diego, California.

2002 An Archaeological/Historical Study for the Otay Ranch Village 13 Project (et al.). Brian F. Smith and Associates, San Diego, California.

2002 An Archaeological/Historical Study for the Audie Murphy Ranch Project (et al.). Brian F. Smith and Associates, San Diego, California.

2002 Results of an Archaeological Survey for the Remote Video Surveillance Project, El Centro Sector, Imperial County, California. Brian F. Smith and Associates, San Diego, California.

2002 A Cultural Resources Survey and Evaluation for the Proposed Robertson Ranch Project, City of Carlsbad. Brian F. Smith and Associates, San Diego, California.

2002 Archaeological Mitigation of Impacts to Prehistoric Site SDI-7976 for the Eastlake III Woods Project, Chula Vista, California. Brian F. Smith and Associates, San Diego, California.

2002 An Archaeological/Historical Study for Tract No. 29777, Menifee West GPA Project, Perris Valley, Riverside County. Brian F. Smith and Associates, San Diego, California.

2002 An Archaeological/Historical Study for Tract No. 29835, Menifee West GPA Project, Perris Valley, Riverside County. Brian F. Smith and Associates, San Diego, California.

2001 An Archaeological Survey and Evaluation of a Cultural Resource for the Moore Property, Poway. Brian F. Smith and Associates, San Diego, California.

2001 An Archaeological Report for the Mitigation, Monitoring, and Reporting Program at the Water and Sewer Group Job 530A, Old Town San Diego. Brian F. Smith and Associates, San Diego, California.

2001 A Cultural Resources Impact Survey for the High Desert Water District Recharge Site 6 Project, Yucca Valley. Brian F. Smith and Associates, San Diego, California.

2001 Archaeological Mitigation of Impacts to Prehistoric Site SDI-13,864 at the Otay Ranch SPA-One West Project. Brian F. Smith and Associates, San Diego, California.

2001 A Cultural Resources Survey and Site Evaluations at the Stewart Subdivision Project, Moreno Valley, County of San Diego. Brian F. Smith and Associates, San Diego, California.

2000 An Archaeological/Historical Study for the French Valley Specific Plan/EIR, French Valley, County of Riverside. Brian F. Smith and Associates, San Diego, California.

2000 Results of an Archaeological Survey and the Evaluation of Cultural Resources at The TPM#24003–Lawson Valley Project. Brian F. Smith and Associates, San Diego, California.

2000 Archaeological Mitigation of Impacts to Prehistoric Site SDI-5326 at the Westview High School Project for the Poway Unified School District. Brian F. Smith and Associates, San Diego, California.

2000 An Archaeological/Historical Study for the Menifee Ranch Project. Brian F. Smith and Associates, San Diego, California.

2000 An Archaeological Survey and Evaluation of Cultural Resources for the Bernardo Mountain Project, Escondido, California. Brian F. Smith and Associates, San Diego, California.

2000 A Cultural Resources Impact Survey for the Nextel Black Mountain Road Project, San Diego, California. Brian F. Smith and Associates, San Diego, California.

2000 A Cultural Resources Impact Survey for the Rancho Vista Project, 740 Hilltop Drive, Chula Vista, California. Brian F. Smith and Associates, San Diego, California.

2000 A Cultural Resources Impact Survey for the Poway Creek Project, Poway, California. Brian F. Smith and Associates, San Diego, California.

2000 Cultural Resource Survey and Geotechnical Monitoring for the Mohyi Residence Project. Brian F. Smith and Associates, San Diego, California.

2000 Enhanced Cultural Resource Survey and Evaluation for the Prewitt/Schmucker/ Cavadias Project. Brian F. Smith and Associates, San Diego, California.

2000 Enhanced Cultural Resource Survey and Evaluation for the Lamont 5 Project. Brian F. Smith and Associates, San Diego, California.

2000 Salvage Excavations at Site SDM-W-95 (CA-SDI-211) for the Poinsettia Shores Santalina Development Project, Carlsbad, California. Brian F. Smith and Associates, San Diego, California.

2000 Enhanced Cultural Resource Survey and Evaluation for the Reiss Residence Project, La Jolla, California. Brian F. Smith and Associates, San Diego, California.

2000 Enhanced Cultural Resource Survey and Evaluation for the Tyrian 3 Project, La Jolla, California. Brian F. Smith and Associates, San Diego, California.

2000 A Report for an Archaeological Evaluation of Cultural Resources at the Otay Ranch Village Two SPA, Chula Vista, California. Brian F. Smith and Associates, San Diego, California.

2000 An Archaeological Evaluation of Cultural Resources for the Airway Truck Parking Project, Otay Mesa, County of San Diego. Brian F. Smith and Associates, San Diego, California.

2000 Results of an Archaeological Survey and Evaluation of a Resource for the Tin Can Hill Segment of the Immigration and Naturalization and Immigration Service Border Road, Fence, and Lighting Project, San Diego County, California. Brian F. Smith and Associates, San Diego, California.

1999 An Archaeological Survey of the Home Creek Village Project, 4600 Block of Home Avenue, San Diego, California. Brian F. Smith and Associates, San Diego, California.

1999 An Archaeological Survey for the Sgobassi Lot Split, San Diego County, California. Brian F. Smith and Associates, San Diego, California.

1999 An Evaluation of Cultural Resources at the Otay Ranch Village 11 Project. Brian F. Smith and Associates, San Diego, California.

1999 An Archaeological/Historical Survey and Evaluation of a Cultural Resource for The Osterkamp Development Project, Valley Center, California. Brian F. Smith and Associates, San Diego, California.

1999 An Archaeological Survey and Evaluation of Cultural Resources for the Palomar Christian Conference Center Project, Palomar Mountain, California. Brian F. Smith and Associates, San Diego, California.

1999 An Archaeological Survey and Evaluation of a Cultural Resource for the Proposed College Boulevard Alignment Project. Brian F. Smith and Associates, San Diego, California.

1999 Results of an Archaeological Evaluation for the Anthony's Pizza Acquisition Project in Ocean Beach, City of San Diego (with L. Pierson and B. Smith). Brian F. Smith and Associates, San Diego, California.

1996 An Archaeological Testing Program for the Scripps Poway Parkway East Project. Brian F. Smith and Associates, San Diego, California.

1995 Results of a Cultural Resources Study for the 4S Ranch. Brian F. Smith and Associates, San Diego, California.

1995 Results of an Archaeological Evaluation of Cultural Resources Within the Proposed Corridor for the San Elijo Water Reclamation System. Brian F. Smith and Associates, San Diego, California.

1994 Results of the Cultural Resources Mitigation Programs at Sites SDI-11,044/H and SDI-12,038 at the Salt Creek Ranch Project . Brian F. Smith and Associates, San Diego, California.

1993 Results of an Archaeological Survey and Evaluation of Cultural Resources at the Stallion Oaks Ranch Project. Brian F. Smith and Associates, San Diego, California.

1992 Results of an Archaeological Survey and the Evaluation of Cultural Resources at the Ely Lot Split Project. Brian F. Smith and Associates, San Diego, California.

1991 The Results of an Archaeological Study for the Walton Development Group Project. Brian F. Smith and Associates, San Diego, California.

Andrew J. Garrison, M.A., RPA

Senior Project Archaeologist

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Education

Master of Arts, Public History, University of California, Riverside **2009**

Bachelor of Science, Anthropology, University of California, Riverside **2005**

Bachelor of Arts, History, University of California, Riverside **2005**

Professional Memberships

Register of Professional Archaeologists
Society for California Archaeology
Society for American Archaeology
California Council for the Promotion of History
Society of Primitive Technology
Lithic Studies Society
California Preservation Foundation
Pacific Coast Archaeological Society

Experience

Senior Project Archaeologist **June 2017–Present**
Brian F. Smith and Associates, Inc. **Poway, California**

Project management of all phases of archaeological investigations for local, state, and federal agencies including National Register of Historic Places (NRHP) and California Environmental Quality Act (CEQA) level projects interacting with clients, sub-consultants, and lead agencies. Supervise and perform fieldwork including archaeological survey, monitoring, site testing, comprehensive site records checks, and historic building assessments. Perform and oversee technological analysis of prehistoric lithic assemblages. Author or co-author cultural resource management reports submitted to private clients and lead agencies.

Senior Archaeologist and GIS Specialist **2009–2017**
Scientific Resource Surveys, Inc. **Orange, California**

Served as Project Archaeologist or Principal Investigator on multiple projects, including archaeological monitoring, cultural resource surveys, test excavations, and historic building assessments. Directed projects from start to finish, including budget and personnel hours proposals, field and laboratory direction, report writing, technical editing, Native American consultation, and final report submittal. Oversaw all GIS projects including data collection, spatial analysis, and map creation.

Preservation Researcher **2009**
City of Riverside Modernism Survey **Riverside, California**

Completed DPR Primary, District, and Building, Structure and Object Forms for five sites for a grant-funded project to survey designated modern architectural resources within the City of Riverside.

Information Officer **2005, 2008–2009**
Eastern Information Center (EIC), University of California, Riverside **Riverside, California**

Processed and catalogued restricted and unrestricted archaeological and historical site record forms. Conducted research projects and records searches for government agencies and private cultural resource firms.

Reports/Papers

2017 A Phase I Cultural Resources Assessment for the Marbella Villa Project, City of Desert Hot Springs, Riverside County, California. Brian F. Smith and Associates, Inc.

2017 Phase I Cultural Resources Survey for TTM 37109, City of Jurupa Valley, County of Riverside. Brian F. Smith and Associates, Inc.

2017 A Phase I Cultural Resources Survey for the Jefferson & Ivy Project, City of Murrieta, California. Brian F. Smith and Associates, Inc.

2017 A Phase I Cultural Resources Assessment for the Nuevo Dollar General Store Project, Riverside County, California. Brian F. Smith and Associates, Inc.

2017 A Phase I Cultural Resource Study for the Westmont Project, Encinitas, California. Brian F. Smith and Associates, Inc.

2017 A Phase I Cultural Resources Assessment for the Winchester Dollar General Store Project, Riverside County, California. Brian F. Smith and Associates, Inc.

2017 Phase I Cultural Resource Assessment for TTM 31810 (42.42 acres) Predico Properties Olive Grove Project. Scientific Resource Surveys, Inc.

2016 John Wayne Airport Jet Fuel Pipeline and Tank Farm Archaeological Monitoring Plan. Scientific Resource Surveys, Inc. On file at the County of Orange, California.

2016 Phase I Cultural Resources Assessment: All Star Super Storage City of Menifee Project, 2015-156. Scientific Resource Surveys, Inc. On file at the Eastern Information Center, University of California, Riverside.

2016 Historic Resource Assessment for 220 South Batavia Street, Orange, CA 92868 Assessor's Parcel Number 041-064-4. Scientific Resource Surveys, Inc. Submitted to the City of Orange as part of Mills Act application.

2015 Historic Resource Report: 807-813 Harvard Boulevard, Los Angeles. Scientific Resource Surveys, Inc. On file at the South Central Coastal Information Center, California State University, Fullerton.

2015 Exploring a Traditional Rock Cairn: Test Excavation at CA-SDI-13/RBLI-26: The Rincon Indian Reservation, San Diego County, California. Scientific Resource Surveys, Inc.

2015 Class III Scientific Resource Surveys, Inc. Survey for The Lynx Cat Granite Quarry and Water Valley Road Widening Project County of San Bernardino, California, Near the Community of Hinkley. Scientific Resource Surveys, Inc. On file at the South Central Coastal Information Center, California State University, Fullerton.

2014 Archaeological Phase I: Cultural Resource Survey of the South West Quadrant of Fairview Park, Costa Mesa. Scientific Resource Surveys, Inc. On file at the South Central Coastal Information Center, California State University, Fullerton.

2014 Archaeological Monitoring Results: The New Los Angeles Federal Courthouse. Scientific Resource Surveys, Inc. On file at the South Central Coastal Information Center, California State University, Fullerton.

2012 Bolsa Chica Archaeological Project Volume 7, Technological Analysis of Stone Tools, Lithic Technology at Bolsa Chica: Reduction Maintenance and Experimentation. Scientific Resource Surveys, Inc.

2010 Phase II Cultural Resources Report Site CA=RIV-2160 PM No. 35164. Scientific Resource Surveys, Inc. On file at the Eastern Information Center, University of California, Riverside.

2009 Riverside Modernism Context Survey, contributing author. Available online at the City of Riverside.

Presentations

2017 "Repair and Replace: Lithic Production Behavior as Indicated by the Debitage Assemblage from CA-MRP-283 the Hackney Site." Presented at the Society for California Archaeology Annual Meeting, Fish Camp, California.

2016 "Bones, Stones, and Shell at Bolsa Chica: A Ceremonial Relationship?" Presented at the Society for California Archaeology Annual Meeting, Ontario, California.

2016 "Markers of Time: Exploring Transitions in the Bolsa Chica Assemblage." Presented at the Society for California Archaeology Annual Meeting, Ontario, California.

2016 "Dating Duress: Understanding Prehistoric Climate Change at Bolsa Chica." Presented at the Society for California Archaeology Annual Meeting, Ontario, California.

2015 "Successive Cultural Phasing Of Prehistoric Northern Orange County, California." Presented at the Society for California Archaeology Annual Meeting, Redding, California.

2015 "Southern California Cogged Stone Replication: Experimentation and Results." Presented at the Society for California Archaeology Annual Meeting, Redding, California.

2015 "Prehistoric House Keeping: Lithic Analysis of an Intermediate Horizon House Pit." Presented at the Society for California Archaeology Annual Meeting, Redding, California.

2015 "Pits and Privies: The Use and Disposal of Artifacts from Historic Los Angeles." Presented at the Society for California Archaeology Annual Meeting, Redding, California.

2015 "Grooving in the Past: A Demonstration of the Manufacturing of OGR beads and a look at Past SRS, Inc. Replicative Studies." Demonstration of experimental manufacturing techniques at the January meeting of The Pacific Coast Archaeological Society, Irvine, California.

2014 "From Artifact to Replication: Examining *Olivella* Grooved Bead Manufacturing." Presented at the Society for California Archaeology Annual Meeting, Visalia, California.

2014 "New Discoveries from an Old Collection: Comparing Recently Identified OGR Beads to Those Previously Analyzed from the Encino Village Site." Presented at the Society for California Archaeology Annual Meeting, Visalia, California.

2012 Bolsa Chica Archaeology: Part Seven: Culture and Chronology. Lithic demonstration of experimental manufacturing techniques at the April meeting of The Pacific Coast Archaeological Society, Irvine, California.

2012 "Expedient Flaked Tools from Bolsa Chica: Exploring the Lithic Technological Organization." Presented at the Society for California Archaeology Annual Meeting, San Diego, California.

2012 "Utilitarian and Ceremonial Ground Stone Production at Bolsa Chica Identified Through Production Tools." Presented at the Society for California Archaeology Annual Meeting, San Diego, California.

2012 "Connecting Production Industries at Bolsa Chica: Lithic Reduction and Bead Manufacturing." Presented at the Society for California Archaeology Annual Meeting, San Diego, California.

2011 Bolsa Chica Archaeology: Part Four: Mesa Production Industries. Co-presenter at the April meeting of The Pacific Coast Archaeological Society, Irvine, California.

2011 "Hammerstones from Bolsa Chica and Their Relationship towards Site Interpretation." Presented at the Society for California Archaeology Annual Meeting, Rohnert Park, California.

2011 "Exploring Bipolar Reduction at Bolsa Chica: Debitage Analysis and Replication." Presented at the Society for California Archaeology Annual Meeting, Rohnert Park, California.

APPENDIX B

Updated and New Site Record Forms

(Deleted for Public Review; Bound Separately)

APPENDIX C

Archaeological Records Search Results

(Deleted for Public Review; Bound Separately)

APPENDIX D

NAHC Sacred Lands File Results

(Deleted for Public Review; Bound Separately)

APPENDIX E

Artifact Catalog

Site Number	Field Designation	Site Locus	Catalog Number	Sort Number	Unit Type	Unit Number	Depth (cm)	Artifact Class	Object Type	Object Subtype	Material Class	Material Type	Functional Category	Modifications	Makers Mark	Manufacturer	Date Range	L (mm)	W (mm)	Th (mm)	Condition	Portion	Qty	Wgt (g)	Comments	Box
SDI-10963	Temp-1	1	1	1	SC	2	Surface	Flaked Stone	Flake Tool	-	Lithic	Metavolcanic	-	-	-	-	-	54.04	40.52	15.62	Complete	-	1	35.29	-	1
SDI-10963	Temp-1	1	2	2	SC	2	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	8.12	-	1
SDI-10963	Temp-1	1	3	3	SC	4	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	13.72	-	1
SDI-10963	Temp-1	1	4	4	SC	5	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	3	119.60	-	1
SDI-10963	Temp-1	1	5	5	SC	6	Surface	Flaked Stone	Flake Tool	-	Lithic	Metavolcanic	-	-	-	-	-	30.17	23.22	6.49	Complete	-	1	4.92	-	1
SDI-10963	Temp-1	1	6	6	SC	7	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	22.66	-	1
SDI-10963	Temp-1	1	7	7	SC	8	Surface	Flaked Stone	Flake Tool	-	Lithic	Metavolcanic	-	-	-	-	-	48.63	31.51	10.49	Complete	-	1	21.87	-	1
SDI-10963	Temp-1	1	8	8	SC	9	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	46.03	-	1
SDI-10963	Temp-1	1	9	9	SC	9	Surface	Flaked Stone	Core	Nodule	Lithic	Metavolcanic	-	Unidirectional	-	-	-	60.64	76.81	45.48	Complete	-	1	226.41	-	1
SDI-10963	Temp-1	1	10	10	SC	10	Surface	Flaked Stone	Flake Tool	-	Lithic	Volcanic	-	-	-	-	-	60.64	45.45	23.58	Complete	-	1	68.66	-	1
SDI-10963	Temp-1	1	11	11	SC	14	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	52.44	-	1
SDI-10963	Temp-1	1	12	12	SC	14	Surface	Flaked Stone	Core	Nodule	Lithic	Metavolcanic	-	Multidirectional	-	-	-	56.82	57.07	34.76	Complete	-	1	124.77	-	1
SDI-10963	Temp-1	1	13	13	SC	15	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	94.81	-	1
SDI-10963	Temp-1	1	14	14	SC	15	Surface	Flaked Stone	Core	Nodule	Lithic	Metavolcanic	-	Multidirectional	-	-	-	66.47	68.46	37.64	Complete	-	1	184.96	-	1
SDI-10963	Temp-1	1	15	15	SC	15	Surface	Flaked Stone	Adze	Type I	Lithic	Metavolcanic	-	-	-	-	-	48.00	61.72	49.35	Complete	-	1	179.52	-	1
SDI-10963	Temp-1	1	16	16	SC	16	Surface	Flaked Stone	Core	Nodule	Lithic	Metavolcanic	-	Unidirectional	-	-	-	42.02	49.08	27.38	Complete	-	1	58.54	-	1
SDI-10963	Temp-1	1	17	17	SC	17	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	2	112.03	-	1
SDI-10963	Temp-1	1	18	18	SC	18	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	105.40	-	1
SDI-10963	Temp-1	1	19	19	SC	19	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	4.72	-	1
SDI-10963	Temp-1	1	20	20	SC	23	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	188.06	-	1
SDI-10963	Temp-1	1	21	21	TU	1	0-10	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	2	12.06	-	1
SDI-10963	Temp-1	1	22	22	TU	1	10-20	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	39.35	-	1
SDI-10963	Temp-1	1	23	23	TU	1	0-10	Fauna	Shell	-	Shell	Marine	-	-	-	-	-	-	-	-	Complete	-	-	4.94	-	1
SDI-10963	Temp-1	1	24	24	TU	1	10-20	Fauna	Shell	-	Shell	Marine	-	-	-	-	-	-	-	-	Complete	-	-	7.64	-	1
SDI-10963	Temp-1	1	25	25	TU	1	20-30	Fauna	Shell	-	Shell	Marine	-	-	-	-	-	-	-	-	Complete	-	-	27.19	-	1
SDI-10963	Temp-1	1	26	26	TU	1	30-40	Fauna	Shell	-	Shell	Marine	-	-	-	-	-	-	-	-	Complete	-	-	25.12	-	1
SDI-10963	Temp-1	1	27	27	TU	1	40-50	Fauna	Shell	-	Shell	Marine	-	-	-	-	-	-	-	-	Complete	-	-	5.59	-	1
SDI-10963	Temp-1	1	28	28	STP	1	0-10	Fauna	Shell	-	Shell	Marine	-	-	-	-	-	-	-	-	Complete	-	-	0.68	-	1
SDI-10963	Temp-1	1	29	29	STP	2	20-30	Fauna	Shell	-	Shell	Marine	-	-	-	-	-	-	-	-	Complete	-	-	0.24	-	1
SDI-10963	Temp-1	1	30	30	STP	10	0-10	Fauna	Shell	-	Shell	Marine	-	-	-	-	-	-	-	-	Complete	-	-	12.12	-	1
SDI-10963	Temp-1	1	31	31	STP	10	10-20	Fauna	Shell	-	Shell	Marine	-	-	-	-	-	-	-	-	Complete	-	-	7.24	-	1
SDI-10963	Temp-1	1	32	32	STP	10	20-30	Fauna	Shell	-	Shell	Olivella sp.	-	-	-	-	-	-	-	-	Complete	-	-	0.25	-	1
SDI-10963	Temp-1	1	33	33	STP	10	30-40	Fauna	Shell	-	Shell	Marine	-	-	-	-	-	-	-	-	Complete	-	-	0.50	-	1
SDI-10963	Temp-1	1	34	34	TU	1	0-10	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	1.97	-	1
SDI-10963	Temp-1	1	35	35	TU	1	0-10	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	1.32	-	1
SDI-10963	Temp-1	1	36	36	TU	1	0-10	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread, stippled base	H over A	Hazel-Atlas Glass Co.	1940-1964	-	-	-	Fragment	Base	1	11.69	-	1
SDI-10963	Temp-1	1	37	37	TU	1	0-10	Historic	Container	Indeterminate	Glass	Colorless	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	132.51	27 fragments	1
SDI-10963	Temp-1	1	38	38	TU	1	0-10	Historic	Jar	Indeterminate	Glass	Amber	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	4.81	-	1
SDI-10963	Temp-1	1	39	39	TU	1	0-10	Historic	Container	Indeterminate	Glass	Amber	Consumer	Melted glass	-	-	-	-	-	-	Fragment	Body	-	3.12	1 fragment	1
SDI-10963	Temp-1	1	40	40	TU	1	0-10	Historic	Jar	Medicine	Glass	Cobalt	Household	-	-	-	-	-	-	-	Fragment	Body	1	3.33	3 fragments	1
SDI-10963	Temp-1	1	41	41	TU	1	0-10	Historic	Bottle	Beverage	Glass	Green	Consumer	ABM, Crown	-	-	1905-2017	-	-	-	Fragment	Finish	1	17.18	-	1
SDI-10963	Temp-1	1	42	42	TU	1	0-10	Historic	Bottle	Indeterminate	Glass	Green	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	3.11	2 fragments	1
SDI-10963	Temp-1	1	43	43	TU	1	0-10	Historic	Bottle	Alcohol (Wine)	Glass	Olive	Consumer	-	-	-	-	-	-	-	Fragment	Body	1	5.89	2 fragments	1
SDI-10963	Temp-1	1	44	44	TU	1	0-10	Historic	Bottle	Beverage (Soda)	Glass	Aqua	Consumer	-	-	-	-	-	-	-	Fragment	Body	1	14.90	4 fragments	1
SDI-10963	Temp-1	1	45	45	TU	1	0-10	Historic	Jar	Cosmetic	Glass	Milk	Personal	-	-	-	-	-	-	-	Fragment	Body	1	9.47	-	1
SDI-10963	Temp-1	1	46	46	TU	1	10-20	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	6.09	-	1
SDI-10963	Temp-1	1	47	47	TU	1	10-20	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	5.33	-	1
SDI-10963	Temp-1	1	48	48	TU	1	10-20	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	3.37	-	1
SDI-10963	Temp-1	1	49	49	TU	1	10-20	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	3.89	2 fragments	1
SDI-10963	Temp-1	1	50	50	TU	1	10-20	Historic	Bottle	Medicine	Glass	Colorless	Household	ABM, small external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	2.58	-	1
SDI-10963	Temp-1	1	51	51	TU	1	10-20	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, stippled base	-	-	1940-2017	-	-	-	Fragment	Base	1	32.31	-	1
SDI-10963	Temp-1	1	52	52	TU	1	10-20	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, stippled base	-	-	1940-2017	-	-	-	Fragment	Base	1	18.69	2 fragments	1
SDI-10963	Temp-1	1	53	53	TU	1	10-20	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	EMB: …W FOR…	-	-	1905-2017	-	-	-	Fragment	Shoulder	1	2.74	-	1
SDI-10963	Temp-1	1	54	54	TU	1	10-20	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	EMB: …HEN USE…	-	-	1905-2017	-	-	-	Fragment	Shoulder	1	2.52	-	1
SDI-10963	Temp-1	1	55	55	TU	1	10-20	Historic	Glassware	Vessel	Glass	Colorless	Household	-	-	-	-	-	-	-	Fragment	Body	1	2.53	-	1
SDI-10963	Temp-1	1	56	56	TU	1	10-20	Historic	Glassware	Tumbler	Glass	Colorless	Household	-	-	-	-	-	-	-	Fragment	Rim	1	1.32	-	1
SDI-10963	Temp-1	1	57	57	TU	1	10-20	Historic	Container	Indeterminate	Glass	Colorless	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	136.26	38 fragments	1
SDI-10963	Temp-1	1	58	58	TU	1	10-20	Historic	Jar	Indeterminate	Glass	Amber	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	1.39	-	1
SDI-10963	Temp-1	1	59	59	TU	1	10-20	Historic	Container	Indeterminate	Glass	Amber	Consumer	Melted glass	-	-	-	-	-	-	Fragment	Body	-	51.72	5 fragment	1
SDI-10963	Temp-1	1	60	60	TU	1	10-20	Historic	Jar	Medicine	Glass	Cobalt	Household	-	-	-	-	-	-	-	Fragment	Body	1	2.91	4 fragments	1
SDI-10963	Temp-1	1	61	61	TU	1	10-20	Historic	Bottle	Beverage	Glass	Green	Consumer	ABM, Stippled	-	-	1940-2017	-	-	-	Fragment	Body	1	0.95	-	1

Site Number	Field Designation	Site Locus	Catalog Number	Sort Number	Unit Type	Unit Number	Depth (cm)	Artifact Class	Object Type	Object Subtype	Material Class	Material Type	Functional Category	Modifications	Makers Mark	Manufacturer	Date Range	L (mm)	W (mm)	Th (mm)	Condition	Portion	Qty	Wgt (g)	Comments	Box
SDI-10963	Temp-1	1	62	62	TU	1	10-20	Historic	Bottle	Beverage (Soda	Glass	Aqua	Consumer	EMB: …AR…	-	-	-	-	-	-	Fragment	Body	1	17.30	5 fragments	1
SDI-10963	Temp-1	1	63	63	TU	1	10-20	Historic	Container	Indeterminate	Glass	Aqua	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	18.36	3 fragments	1
SDI-10963	Temp-1	1	64	64	TU	1	10-20	Historic	Jar	Cosmetic	Glass	Milk	Personal	-	-	-	-	-	-	-	Fragment	Body	1	7.38	2 fragments	1
SDI-10963	Temp-1	1	65	65	TU	1	10-20	Historic	Glassware	Vessel	Glass	Aqua	Household	-	-	-	-	-	-	-	Fragment	Foot	1	6.70	-	1
SDI-10963	Temp-1	1	66	66	TU	1	20-30	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	5.94	2 fragments	1
SDI-10963	Temp-1	1	67	67	TU	1	20-30	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	4.66	-	1
SDI-10963	Temp-1	1	68	68	TU	1	20-30	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	10.34	-	1
SDI-10963	Temp-1	1	69	69	TU	1	20-30	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	3.70	-	1
SDI-10963	Temp-1	1	70	70	TU	1	20-30	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	2.80	-	1
SDI-10963	Temp-1	1	71	71	TU	1	20-30	Historic	Bottle	Medicine	Glass	Colorless	Household	ABM, small external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	3.21	-	1
SDI-10963	Temp-1	1	72	72	TU	1	20-30	Historic	Bottle	Medicine	Glass	Colorless	Household	ABM, small external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	2.24	-	1
SDI-10963	Temp-1	1	73	73	TU	1	20-30	Historic	Bottle	Medicine	Glass	Colorless	Household	ABM, small external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	7.07	2 fragments	1
SDI-10963	Temp-1	1	74	74	TU	1	20-30	Historic	Bottle	Medicine	Glass	Colorless	Household	ABM, small external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	6.26	-	1
SDI-10963	Temp-1	1	75	75	TU	1	20-30	Historic	Bottle	Medicine	Glass	Colorless	Household	ABM, small external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	8.53	-	1
SDI-10963	Temp-1	1	76	76	TU	1	20-30	Historic	Bottle	Medicine	Glass	Colorless	Household	ABM, bead	-	-	1905-2017	-	-	-	Fragment	Finish	1	1.84	-	1
SDI-10963	Temp-1	1	77	77	TU	1	20-30	Historic	Bottle	Beverage	Glass	Colorless	Consumer	ABM, crown	-	-	1905-2017	-	-	-	Fragment	Finish	1	19.37	5 fragments	1
SDI-10963	Temp-1	1	78	78	TU	1	20-30	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM	20 (I) 8	Owens Illinois Glass Co.	1954-1968	-	-	-	Fragment	Base	1	4.71	-	1
SDI-10963	Temp-1	1	79	79	TU	1	20-30	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, stippled	Durglas <script> (I)	Owens Illinois Glass Co.	1954-1968	-	-	-	Fragment	Base	1	10.13	-	1
SDI-10963	Temp-1	1	80	80	TU	1	20-30	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, stippled, EMB: NOT TO BE…	(L)	Latchford Glass Co.	1957-1989	-	-	-	Fragment	Base	1	16.00	-	1
SDI-10963	Temp-1	1	81	81	TU	1	20-30	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, stippled	(I)	Owens Illinois Glass Co.	1954-1968	-	-	-	Fragment	Base	1	5.76	-	1
SDI-10963	Temp-1	1	82	82	TU	1	20-30	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, stippled	-	-	1940-2017	-	-	-	Fragment	Base	1	10.59	-	1
SDI-10963	Temp-1	1	83	83	TU	1	20-30	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, stippled	-	-	1940-2017	-	-	-	Fragment	Base	1	5.95	2 fragments	1
SDI-10963	Temp-1	1	84	84	TU	1	20-30	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, stippled	(I)	Owens Illinois Glass Co.	1954-1968	-	-	-	Fragment	Base	1	25.93	-	1
SDI-10963	Temp-1	1	85	85	TU	1	20-30	Historic	Jar	Indeterminate	Glass	Colorless	Kitchen	ABM, stippled	-	-	1940-2017	-	-	-	Fragment	Base	1	78.91	2 fragments	1
SDI-10963	Temp-1	1	86	86	TU	1	20-30	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, EMB: "…UART"	-	-	1940-2017	-	-	-	Fragment	Base	1	3.79	-	1
SDI-10963	Temp-1	1	87	87	TU	1	20-30	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, EMB: "…UART"	-	-	1940-2017	-	-	-	Fragment	Base	1	1.46	-	1
SDI-10963	Temp-1	1	88	88	TU	1	20-30	Historic	Jar	Indeterminate	Glass	Colorless	Kitchen	EMB: "…D… / ...IDON…"	-	-	1940-2017	-	-	-	Fragment	Base	1	10.22	-	1
SDI-10963	Temp-1	1	89	89	TU	1	20-30	Historic	Glassware	Vessel	Glass	Colorless	Household	-	-	-	-	-	-	-	Fragment	Body	1	26.04	-	1
SDI-10963	Temp-1	1	90	90	TU	1	20-30	Historic	Glassware	Vessel	Glass	Colorless	Household	-	-	-	-	-	-	-	Fragment	Handle	1	4.18	-	1
SDI-10963	Temp-1	1	91	91	TU	1	20-30	Historic	Glassware	Vessel	Glass	Colorless	Household	-	-	-	-	-	-	-	Fragment	Body	1	5.38	-	1
SDI-10963	Temp-1	1	92	92	TU	1	20-30	Historic	Container	Indeterminate	Glass	Colorless	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	208.63	48 fragments	1
SDI-10963	Temp-1	1	93	93	TU	1	20-30	Historic	Jar	Indeterminate	Glass	Amber	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	4.18	-	1
SDI-10963	Temp-1	1	94	94	TU	1	20-30	Historic	Bottle	Alcohol (Beer)	Glass	Amber	Consumer	ABM, crown finish, stippled base	H over anchor	Anchor-Hocking Glass Co.	1937-2017	-	-	-	Fragment	Base, Finish	1	25.60	2 fragments	1
SDI-10963	Temp-1	1	95	95	TU	1	20-30	Historic	Container	Indeterminate	Glass	Amber	Consumer	Melted glass	-	-	-	-	-	-	Fragment	Body	-	35.41	6 fragments	1
SDI-10963	Temp-1	1	96	96	TU	1	20-30	Historic	Jar	Medicine	Glass	Cobalt	Household	EMB: …MAD…"	-	-	-	-	-	-	Fragment	Base, Finish	1	4.51	4 fragments	1
SDI-10963	Temp-1	1	97	97	TU	1	20-30	Historic	Bottle	Beverage	Glass	Green	Consumer	ABM	-	-	1905-2017	-	-	-	Fragment	Base	1	23.04	-	1
SDI-10963	Temp-1	1	98	98	TU	1	20-30	Historic	Bottle	Beverage	Glass	Green	Consumer	ABM, stippled, EMB: NOT TO BE… / 12 18764-0…	-	-	1940-2017	-	-	-	Fragment	Finish	1	16.51	-	1
SDI-10963	Temp-1	1	99	99	TU	1	20-30	Historic	Bottle	Indeterminate	Glass	Green	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	21.15	5 fragments	1
SDI-10963	Temp-1	1	100	100	TU	1	20-30	Historic	Bottle	Alcohol (Wine)	Glass	Olive	Consumer	ABM, champagne finish	-	-	-	-	-	-	Fragment	Body, Finish	1	38.42	3 fragments	1
SDI-10963	Temp-1	1	101	101	TU	1	20-30	Historic	Container	Indeterminate	Glass	Aqua	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	65.44	7 fragments	1
SDI-10963	Temp-1	1	102	102	TU	1	20-30	Historic	Architecture	Window	Glass	Aqua	Building Materials	-	-	-	-	-	-	-	Fragment	Body	-	9.78	2 fragments	1
SDI-10963	Temp-1	1	103	103	TU	1	20-30	Historic	Jar	Cosmetic	Glass	Milk	Personal	Wide external thread	-	-	-	-	-	-	Fragment	Body, Finish	1	30.97	7 fragments	1
SDI-10963	Temp-1	1	104	104	TU	1	20-30	Historic	Glassware	Vessel	Glass	Aqua	Household	-	-	-	-	-	-	-	Fragment	Body	1	3.67	2 fragments	1
SDI-10963	Temp-1	1	105	105	TU	1	30-40	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	8.32	2 fragments	1
SDI-10963	Temp-1	1	106	106	TU	1	30-40	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	4.06	-	1

Site Number	Field Designation	Site Locus	Catalog Number	Sort Number	Unit Type	Unit Number	Depth (cm)	Artifact Class	Object Type	Object Subtype	Material Class	Material Type	Functional Category	Modifications	Makers Mark	Manufacturer	Date Range	L (mm)	W (mm)	Th (mm)	Condition	Portion	Qty	Wgt (g)	Comments	Box
SDI-10963	Temp-1	1	107	107	TU	1	30-40	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	10.50	3 fragments	1
SDI-10963	Temp-1	1	108	108	TU	1	30-40	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	13.45	-	1
SDI-10963	Temp-1	1	109	109	TU	1	30-40	Historic	Bottle	Medicine	Glass	Colorless	Household	ABM, small external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	2.96	-	1
SDI-10963	Temp-1	1	110	110	TU	1	30-40	Historic	Bottle	Alcohol (Spirits)	Glass	Colorless	Consumer	ABM, small external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	3.98	2 fragments	1
SDI-10963	Temp-1	1	111	111	TU	1	30-40	Historic	Bottle	Alcohol (Spirits)	Glass	Colorless	Consumer	ABM, small external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	19.21	2 fragments	1
SDI-10963	Temp-1	1	112	112	TU	1	30-40	Historic	Bottle	Alcohol (Spirits)	Glass	Colorless	Consumer	ABM, small external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	5.04	-	1
SDI-10963	Temp-1	1	113	113	TU	1	30-40	Historic	Bottle	Alcohol (Spirits)	Glass	Colorless	Consumer	ABM, straight brandy	-	-	1905-2017	-	-	-	Fragment	Finish	1	13.90	-	1
SDI-10963	Temp-1	1	114	114	TU	1	30-40	Historic	Bottle	Alcohol (Spirits)	Glass	Colorless	Consumer	ABM, straight brandy	-	-	1905-2017	-	-	-	Fragment	Finish	1	3.32	-	1
SDI-10963	Temp-1	1	115	115	TU	1	30-40	Historic	Bottle	Beverage	Glass	Colorless	Consumer	ABM, stippled	-	-	1940-2017	-	-	-	Fragment	Base	4	22.05	-	1
SDI-10963	Temp-1	1	116	116	TU	1	30-40	Historic	Bottle	Alcohol	Glass	Colorless	Consumer	ABM, EMB: …ON CENTRAL W…	-	-	1905-2017	-	-	-	Fragment	Base	1	17.38	-	1
SDI-10963	Temp-1	1	117	117	TU	1	30-40	Historic	Bottle	Alcohol	Glass	Colorless	Consumer	ABM	mTc	Thatcher Glass Manufacturing Co.	1923-1959	-	-	-	Fragment	Base	1	16.69	-	1
SDI-10963	Temp-1	1	118	118	TU	1	30-40	Historic	Bottle	Medicine	Glass	Colorless	Household	ABM	(W)	Wheaton Industries	1946-2017	-	-	-	Fragment	Base	1	6.06	-	1
SDI-10963	Temp-1	1	119	119	TU	1	30-40	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, stippled base	GC entwined	Glass Containers Corp.	1940-1980	-	-	-	Fragment	Base	1	18.43	-	1
SDI-10963	Temp-1	1	120	120	TU	1	30-40	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, stippled base, EMB: …TH HOM…	-	-	1905-2017	-	-	-	Fragment	Base	1	14.23	-	1
SDI-10963	Temp-1	1	121	121	TU	1	30-40	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, stippled base	-	-	1905-2017	-	-	-	Fragment	Base	1	19.94	-	1
SDI-10963	Temp-1	1	122	122	TU	1	30-40	Historic	Bottle	Cosmetic	Glass	Colorless	Personal	ABM, stippled base	-	-	1905-2017	-	-	-	Fragment	Base	1	9.24	-	1
SDI-10963	Temp-1	1	123	123	TU	1	30-40	Historic	Bottle	Cosmetic	Glass	Colorless	Personal	ABM, EMB: …von	-	Avon	1905-2017	-	-	-	Fragment	Base	1	13.22	-	1
SDI-10963	Temp-1	1	124	124	TU	1	30-40	Historic	Bottle	Alcohol (Spirits)	Glass	Colorless	Consumer	ABM, stippled base	-	-	1905-2017	-	-	-	Fragment	Base	1	17.38	-	1
SDI-10963	Temp-1	1	125	125	TU	1	30-40	Historic	Bottle	Beverage (Soda)	Glass	Colorless	Consumer	ABM, ACL: (white on blue) WORLD… / FAM	-	-	1940-2017	-	-	-	Fragment	Neck	1	5.49	-	1
SDI-10963	Temp-1	1	126	126	TU	1	30-40	Historic	Container	Indeterminate	Glass	Colorless	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	85.29	15 fragments	1
SDI-10963	Temp-1	1	127	127	TU	1	30-40	Historic	Jar	Indeterminate	Glass	Amber	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	8.18	-	1
SDI-10963	Temp-1	1	128	128	TU	1	30-40	Historic	Bottle	Alcohol (Beer)	Glass	Amber	Consumer	ABM, crown finish	-	-	1905-2017	-	-	-	Fragment	Finish	1	6.28	-	1
SDI-10963	Temp-1	1	129	129	TU	1	30-40	Historic	Container	Indeterminate	Glass	Amber	Consumer	Melted glass	-	-	-	-	-	-	Fragment	Body	-	28.01	6 fragments	1
SDI-10963	Temp-1	1	130	130	TU	1	30-40	Historic	Jar	Medicine	Glass	Cobalt	Household	Melted glass	-	-	-	-	-	-	Fragment	Body	-	4.20	2 fragments	1
SDI-10963	Temp-1	1	131	131	TU	1	30-40	Historic	Bottle	Beverage	Glass	Green	Consumer	ABM, Champagne finish, ACL: …YOUNG / LOS AN…	-	-	1933-2017	-	-	-	Fragment	Body, Finish	1	41.49	5 fragments	1
SDI-10963	Temp-1	1	132	132	TU	1	30-40	Historic	Bottle	Alcohol (Wine)	Glass	Olive	Consumer	ABM, EMB: (heel) 3/4…	-	-	1914-2017	-	-	-	Fragment	Heel	1	3.45	-	1
SDI-10963	Temp-1	1	133	133	TU	1	30-40	Historic	Bottle	Beverage (Soda)	Glass	Aqua	Consumer	ABM, ACL: (white) COL…; EMB: COL…	-	Coca Cola Co.	1915-1967	-	-	-	Fragment	Body	1	41.39	5 fragments	1
SDI-10963	Temp-1	1	134	134	TU	1	30-40	Historic	Bottle	Indeterminate	Glass	Aqua	Consumer	ABM	(L) <script>	Libbey Glass Co.	1955-2017	-	-	-	Fragment	Base	1	25.07	-	1
SDI-10963	Temp-1	1	135	135	TU	1	30-40	Historic	Architecture	Window	Glass	Aqua	Building Materials	-	-	-	-	-	-	-	Fragment	Body	-	15.36	2 fragments	1
SDI-10963	Temp-1	1	136	136	TU	1	30-40	Historic	Bottle	Indeterminate	Glass	Aqua	Consumer	Melted glass	-	-	-	-	-	-	Fragment	Body	-	1.98	-	1
SDI-10963	Temp-1	1	137	137	TU	1	30-40	Historic	Jar	Cosmetic	Glass	Milk	Personal	Wide external thread	Avon / 5	Avon	1905-2017	-	-	-	Fragment	Base, Finish	1	53.18	3 fragments	1
SDI-10963	Temp-1	1	138	138	TU	1	30-40	Historic	Jar	Cosmetic	Glass	Milk	Personal	-	-	-	1905-2017	-	-	-	Fragment	Body	-	4.09	3 fragments	1
SDI-10963	Temp-1	1	139	139	TU	1	40-50	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, stippled base	-	-	1940-2017	-	-	-	Fragment	Base	2	22.72	4 fragments	1
SDI-10963	Temp-1	1	140	140	TU	1	40-50	Historic	Bottle	Alcohol	Glass	Colorless	Consumer	ABM, stippled base, EMB: 1805 / CONTEN…	-	-	1940-2017	-	-	-	Fragment	Base	1	16.85	-	1
SDI-10963	Temp-1	1	141	141	TU	1	40-50	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	2	4.44	-	1
SDI-10963	Temp-1	1	142	142	TU	1	40-50	Historic	Bottle	Alcohol	Glass	Colorless	Consumer	ABM, crown finish	-	-	1905-2017	-	-	-	Fragment	Finish	1	15.05	-	1

Site Number	Field Designation	Site Locus	Catalog Number	Sort Number	Unit Type	Unit Number	Depth (cm)	Artifact Class	Object Type	Object Subtype	Material Class	Material Type	Functional Category	Modifications	Makers Mark	Manufacturer	Date Range	L (mm)	W (mm)	Th (mm)	Condition	Portion	Qty	Wgt (g)	Comments	Box
SDI-10963	Temp-1	1	143	143	TU	1	40-50	Historic	Bottle	Alcohol	Glass	Colorless	Consumer	ABM, EMB: FEDER…	-	-	1935-1965	-	-	-	Fragment	Body	1	7.38	-	1
SDI-10963	Temp-1	1	144	144	TU	1	40-50	Historic	Bottle	Beverage	Glass	Colorless	Consumer	ABM, ACL: (white) …HOUSE / GUARAN… / …EMENT OR REFU… / Contents: 4 …	-	-	1933-2017	-	-	-	Fragment	Body	1	1.50	-	1
SDI-10963	Temp-1	1	145	145	TU	1	40-50	Historic	Bottle	Beverage	Glass	Colorless	Consumer	ABM, ACL: Blue	-	-	1933-2017	-	-	-	Fragment	Body	1	6.14	-	1
SDI-10963	Temp-1	1	146	146	TU	1	40-50	Historic	Container	Indeterminate	Glass	Colorless	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	89.02	14 fragments	1
SDI-10963	Temp-1	1	147	147	TU	1	30-40	Historic	Bottle	Indeterminate	Glass	Amber	Consumer	EMB: U.S. Pat…	mTc	hatcher Glass Manufacturing Co.	1923-1959	-	-	-	Fragment	Base	1	35.95	2 fragments	1
SDI-10963	Temp-1	1	148	148	TU	1	30-40	Historic	Bottle	Alcohol (Beer)	Glass	Amber	Consumer	ABM, stippled base	-	-	1940-2017	-	-	-	Fragment	Base	1	6.47	-	1
SDI-10963	Temp-1	1	149	149	TU	1	30-40	Historic	Bottle	Alcohol (Beer)	Glass	Amber	Consumer	ABM, crown finish	-	-	1905-2017	-	-	-	Fragment	Finish	1	5.02	-	1
SDI-10963	Temp-1	1	150	150	TU	1	30-40	Historic	Bottle	Alcohol (Beer)	Glass	Amber	Consumer	ABM, ACL	-	-	1933-2017	-	-	-	Fragment	Body	1	1.19	-	1
SDI-10963	Temp-1	1	151	151	TU	1	30-40	Historic	Bottle	Indeterminate	Glass	Amber	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	21.35	3 fragments	1
SDI-10963	Temp-1	1	152	152	TU	1	30-40	Historic	Jar	Medicine	Glass	Cobalt	Household	ABM	-	-	1905-2017	-	-	-	Fragment	Body	-	1.43	-	1
SDI-10963	Temp-1	1	153	153	TU	1	30-40	Historic	Bottle	Beverage	Glass	Green	Consumer	ABM, crown finish	-	-	1905-2017	-	-	-	Fragment	Finish	1	6.82	-	1
SDI-10963	Temp-1	1	154	154	TU	1	30-40	Historic	Bottle	Beverage	Glass	Green	Consumer	ABM, crown finish	-	-	1905-2017	-	-	-	Fragment	Finish	1	3.91	-	1
SDI-10963	Temp-1	1	155	155	TU	1	30-40	Historic	Bottle	Beverage (Soda)	Glass	Aqua	Consumer	ABM, ACL: (white) …A	-	Coca Cola Co.	1915-1967	-	-	-	Fragment	Body	1	5.27	-	1
SDI-10963	Temp-1	1	156	156	TU	1	30-40	Historic	Bottle	Indeterminate	Glass	Aqua	Consumer	Melted glass	-	-	-	-	-	-	Fragment	Body	-	17.10	2 fragments	1
SDI-10963	Temp-1	1	157	157	TU	1	30-40	Historic	Jar	Cosmetic	Glass	Milk	Personal	Wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	1.75	-	1
SDI-10963	Temp-1	1	158	158	TU	1	30-40	Historic	Jar	Cosmetic	Glass	Milk	Personal	ACL: Blue stripe along exterior	-	-	1933-2017	-	-	-	Fragment	Body	1	4.12	2 fragments	1
SDI-10963	Temp-1	1	159	159	TU	1	30-40	Historic	Jar	Cosmetic	Glass	Milk	Personal	ABM, Stippled base	…MARK	-	1940-2017	-	-	-	Fragment	Base	1	1.99	-	1
SDI-10963	Temp-1	1	160	160	TU	1	30-40	Historic	Jar	Cosmetic	Glass	Milk	Personal	ABM	-	-	1905-2017	-	-	-	Fragment	Body	-	4.19	2 fragments	1
SDI-10963	Temp-1	1	161	161	SC	18	Surface	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM	-	-	1905-2017	-	-	-	Fragment	Base	1	12.66	-	1
SDI-10963	Temp-1	1	162	162	SC	23	Surface	Historic	Jar	Cosmetic	Glass	Milk	Personal	ABM	-	-	1905-2017	-	-	-	Fragment	Rim	1	7.61	-	1
SDI-10963	Temp-1	1	163	163	SC	23	Surface	Historic	Jar	Cosmetic	Glass	Milk	Personal	Pinkish tint	-	-	1905-2017	-	-	-	Fragment	Rim	1	3.82	-	1
SDI-10963	Temp-1	1	164	164	STP	1	10-20	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM	-	-	1905-2017	-	-	-	Fragment	Heel	1	1.36	-	1
SDI-10963	Temp-1	1	165	165	STP	1	10-20	Historic	Bottle	Indeterminate	Glass	Amber	Consumer	ABM	-	-	1905-2017	-	-	-	Fragment	Body	1	0.48	-	1
SDI-10963	Temp-1	1	166	166	STP	1	10-20	Historic	Architecture	Window	Glass	Aqua	Building Materials	-	-	-	-	-	-	-	Fragment	Body	-	5.59	2 fragments	1
SDI-10963	Temp-1	1	167	167	STP	1	30-40	Historic	Jug	Indeterminate	Glass	Colorless	Consumer	ABM	-	-	1905-2017	-	-	-	Fragment	Neck	1	21.00	-	1
SDI-10963	Temp-1	1	168	168	STP	1	30-40	Historic	Container	Indeterminate	Glass	Colorless	Consumer	-	-	-	-	-	-	-	Fragment	Body	1	6.34	-	1
SDI-10963	Temp-1	1	169	169	STP	1	30-40	Historic	Bottle	Indeterminate	Glass	Amber	Consumer	ABM, Stippled base	…44	-	1940-2017	-	-	-	Fragment	Base	1	27.44	-	1
SDI-10963	Temp-1	1	170	170	STP	1	30-40	Historic	Container	Indeterminate	Glass	Amber	Consumer	-	-	-	-	-	-	-	Fragment	Body	1	22.18	-	1
SDI-10963	Temp-1	1	171	171	STP	1	30-40	Historic	Jar	Medicine	Glass	Cobalt	Household	ABM, EMB: … PAT MAY…	-	-	1905-2017	-	-	-	Fragment	Base	1	12.60	-	1
SDI-10963	Temp-1	1	172	172	STP	1	30-40	Historic	Bottle	Beverage (Soda)	Glass	Green	Consumer	ABM, ACL (white)	-	-	1933-2017	-	-	-	Fragment	Body	1	21.58	-	1
SDI-10963	Temp-1	1	173	173	STP	1	30-40	Historic	Bottle	Indeterminate	Glass	Green	Consumer	-	-	-	-	-	-	-	Fragment	Body	1	2.36	-	1
SDI-10963	Temp-1	1	174	174	STP	1	40-50	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, Stippled	-	-	1940-2017	-	-	-	Fragment	Base	1	12.57	-	1
SDI-10963	Temp-1	1	175	175	STP	1	40-50	Historic	Container	Indeterminate	Glass	Colorless	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	30.55	5 fragments	1
SDI-10963	Temp-1	1	176	176	STP	1	40-50	Historic	Bottle	Indeterminate	Glass	Amber	Consumer	ABM	-	-	1905-2017	-	-	-	Fragment	Body	2	0.48	-	1
SDI-10963	Temp-1	1	177	177	STP	1	40-50	Historic	Container	Indeterminate	Glass	Aqua	Consumer	-	-	-	-	-	-	-	Fragment	Body	1	24.28	-	1
SDI-10963	Temp-1	1	178	178	STP	1	40-50	Historic	Bottle	Indeterminate	Glass	Green	Consumer	Melted glass	-	-	-	-	-	-	Fragment	Body	1	6.07	-	1
SDI-10963	Temp-1	1	179	179	STP	1	40-50	Historic	Bottle	Alcohol (Wine)	Glass	Olive	Consumer	-	-	-	-	-	-	-	Fragment	Body	1	1.54	-	1
SDI-10963	Temp-1	1	180	180	STP	1	40-50	Historic	Jar	Cosmetic	Glass	Milk	Personal	ABM	-	-	1905-2017	-	-	-	Fragment	Heel	1	5.48	-	1
SDI-10963	Temp-1	1	181	181	STP	10	0-10	Historic	Container	Indeterminate	Glass	Colorless	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	68.63	34 fragments	1
SDI-10963	Temp-1	1	182	182	STP	10	0-10	Historic	Architecture	Window	Glass	Aqua	Building Materials	-	-	-	-	-	-	-	Fragment	Body	-	10.52	3 fragments	1
SDI-10963	Temp-1	1	183	183	STP	10	0-10	Historic	Bottle	Beverage (Soda)	Glass	Aqua	Consumer	ABM	-	-	1905-1969	-	-	-	Fragment	Base	1	11.48	-	1
SDI-10963	Temp-1	1	184	184	STP	10	0-10	Historic	Bottle	Beverage (Soda)	Glass	Aqua	Consumer	ABM, Stippled Base	…RANCIS…	-	1940-1969	-	-	-	Fragment	Base	1	15.58	-	1
SDI-10963	Temp-1	1	185	185	STP	10	0-10	Historic	Bottle	Indeterminate	Glass	Green	Consumer	ABM, Stippled	-	-	1940-2017	-	-	-	Fragment	Body	-	2.32	3 fragments	1
SDI-10963	Temp-1	1	186	186	STP	10	0-10	Historic	Jar	Cosmetic	Glass	Milk	Personal	ABM	-	-	1905-2017	-	-	-	Fragment	Body	1	6.56	-	1
SDI-10963	Temp-1	1	187	187	STP	10	10-20	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	2.44	-	1
SDI-10963	Temp-1	1	188	188	STP	10	10-20	Historic	Jar	Condiment	Glass	Colorless	Consumer	ABM, wide external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	4.04	-	1
SDI-10963	Temp-1	1	189	189	STP	10	10-20	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, stippled base	-	-	1940-2017	-	-	-	Fragment	Base	1	12.09	-	1
SDI-10963	Temp-1	1	190	190	STP	10	10-20	Historic	Bottle	Indeterminate	Glass	Colorless	Consumer	ABM, stippled base	-	-	1940-2017	-	-	-	Fragment	Base	1	1.09	-	1
SDI-10963	Temp-1	1	191	191	STP	10	10-20	Historic	Container	Indeterminate	Glass	Colorless	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	85.46	40 fragments	1

Site Number	Field Designation	Site Locus	Catalog Number	Sort Number	Unit Type	Unit Number	Depth (cm)	Artifact Class	Object Type	Object Subtype	Material Class	Material Type	Functional Category	Modifications	Makers Mark	Manufacturer	Date Range	L (mm)	W (mm)	Th (mm)	Condition	Portion	Qty	Wgt (g)	Comments	Box
SDI-10963	Temp-1	1	192	192	STP	10	10-20	Historic	Architecture	Window	Glass	Aqua	Building Materials	-	-	-	-	-	-	-	Fragment	Body	-	4.02	3 fragments	1
SDI-10963	Temp-1	1	193	193	STP	10	10-20	Historic	Bottle	Indeterminate	Glass	Amber	Consumer	ABM, Stippled Base	-	-	1940-2017	-	-	-	Fragment	Base	1	6.45	-	1
SDI-10963	Temp-1	1	194	194	STP	10	10-20	Historic	Bottle	Indeterminate	Glass	Amber	Consumer	ABM	-	-	1905-2017	-	-	-	Fragment	Body	-	13.32	6 fragments	1
SDI-10963	Temp-1	1	195	195	STP	10	10-20	Historic	Bottle	Beverage	Glass	Green	Consumer	ABM, Small mouth external thread	-	-	1905-2017	-	-	-	Fragment	Finish	1	3.79	-	1
SDI-10963	Temp-1	1	196	196	STP	10	10-20	Historic	Bottle	Beverage	Glass	Green	Consumer	ABM	-	-	1905-2017	-	-	-	Fragment	Body	-	8.90	6 fragments	1
SDI-10963	Temp-1	1	197	197	STP	10	10-20	Historic	Jar	Medicine	Glass	Cobalt	Household	ABM	-	-	1905-2017	-	-	-	Fragment	Body	1	1.97	-	1
SDI-10963	Temp-1	1	198	198	STP	10	10-20	Historic	Jar	Cosmetic	Glass	Milk	Personal	ABM	-	-	1905-2017	-	-	-	Fragment	Body	1	1.90	-	1
SDI-10963	Temp-1	1	199	199	STP	10	20-30	Historic	Container	Indeterminate	Glass	Colorless	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	96.67	35 fragments	1
SDI-10963	Temp-1	1	200	200	STP	10	20-30	Historic	Bottle	Beverage	Glass	Amber	Consumer	ABM, Stippled Base	mTc	Thatcher Glass Manufacturing Co.	1923-1959	-	-	-	Fragment	Base	1	4.80	-	1
SDI-10963	Temp-1	1	201	201	STP	10	20-30	Historic	Bottle	Indeterminate	Glass	Amber	Consumer	ABM	-	-	1905-2017	-	-	-	Fragment	Body	-	8.06	4 fragments	1
SDI-10963	Temp-1	1	202	202	STP	10	20-30	Historic	Bottle	Beverage	Glass	Green	Consumer	ABM, Stippled Base	-	-	1940-2017	-	-	-	Fragment	Base	1	4.93	-	1
SDI-10963	Temp-1	1	203	203	STP	10	20-30	Historic	Bottle	Beverage	Glass	Green	Consumer	ABM	-	-	1905-2017	-	-	-	Fragment	Body	-	17.42	7 fragments	1
SDI-10963	Temp-1	1	204	204	STP	10	20-30	Historic	Bottle	Alcohol (Wine)	Glass	Olive	Consumer	-	-	-	-	-	-	-	Fragment	Body	1	2.24	-	1
SDI-10963	Temp-1	1	205	205	STP	10	30-40	Historic	Container	Indeterminate	Glass	Colorless	Consumer	-	-	-	-	-	-	-	Fragment	Body	-	9.88	6 fragments	1
SDI-10963	Temp-1	1	206	206	STP	10	30-40	Historic	Bottle	Indeterminate	Glass	Aqua	Consumer	-	-	-	-	-	-	-	Fragment	Body	1	11.80	-	1
SDI-10963	Temp-1	1	207	207	STP	10	30-40	Historic	Container	Indeterminate	Glass	Amber	Consumer	-	-	-	-	-	-	-	Fragment	Body	1	4.36	-	1
SDI-10963	Temp-1	1	208	208	TU	1	0-10	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	INT: Yellow glaze, EXT: black glaze	-	-	-	-	-	-	Fragment	Body	1	2.07	-	1
SDI-10963	Temp-1	1	209	209	TU	1	0-10	Historic	Tableware	Mug	Ceramic	Porcelain	Kitchen	TP: Blue stripe over clear glaze	-	-	-	-	-	-	Fragment	Rim	1	4.43	-	1
SDI-10963	Temp-1	1	210	210	TU	1	0-10	Historic	Tableware	Plate	Ceramic	Porcelain	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Foot	1	16.64	-	1
SDI-10963	Temp-1	1	211	211	TU	1	0-10	Historic	Industrial	Ceramic	Ceramic	Porcelain	Building Materials	Clear glaze on one side	-	-	-	-	-	-	Fragment	Body	1	79.77	-	1
SDI-10963	Temp-1	1	212	212	TU	1	0-10	Historic	Industrial	Sewer Pipe	Ceramic	Earthenware	Building Materials	No glaze	-	-	-	-	-	-	Fragment	Body	1	18.62	-	1
SDI-10963	Temp-1	1	213	213	TU	1	10-20	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Yellow glaze	-	-	-	-	-	-	Fragment	Body	1	2.36	-	1
SDI-10963	Temp-1	1	214	214	TU	1	10-20	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Yellow glaze	-	-	-	-	-	-	Fragment	Body	1	3.45	-	1
SDI-10963	Temp-1	1	215	215	TU	1	10-20	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Body	1	0.56	-	1
SDI-10963	Temp-1	1	216	216	TU	1	10-20	Historic	Tableware	Teacup	Ceramic	Earthenware	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Rim	1	1.09	-	1
SDI-10963	Temp-1	1	217	217	TU	1	10-20	Historic	Tableware	Vessel	Ceramic	Porcelain	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Body	1	6.16	-	1
SDI-10963	Temp-1	1	218	218	TU	1	10-20	Historic	Tableware	Vessel	Ceramic	Porcelain	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Body	1	1.74	-	1
SDI-10963	Temp-1	1	219	219	TU	1	10-20	Historic	Tableware	Plate	Ceramic	Porcelain	Kitchen	TP: floral over clear glaze	-	-	-	-	-	-	Fragment	Foot	1	20.28	-	1
SDI-10963	Temp-1	1	220	220	TU	1	10-20	Historic	Tableware	Mug	Ceramic	Earthenware	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Heel	1	11.50	-	1
SDI-10963	Temp-1	1	221	221	TU	1	10-20	Historic	Industrial	Ceramic	Ceramic	Earthenware	Building Materials	Clear glaze on one side	-	-	-	-	-	-	Fragment	Body	1	4.13	-	1
SDI-10963	Temp-1	1	222	222	TU	1	10-20	Historic	Industrial	Sewer Pipe	Ceramic	Earthenware	Building Materials	No glaze	-	-	-	-	-	-	Fragment	Body	3	12.82	-	1
SDI-10963	Temp-1	1	223	223	TU	1	20-30	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Body	1	1.00	-	1
SDI-10963	Temp-1	1	224	224	TU	1	20-30	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Body	1	6.79	2 fragments	1
SDI-10963	Temp-1	1	225	225	TU	1	20-30	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Body	1	3.83	-	1
SDI-10963	Temp-1	1	226	226	TU	1	20-30	Historic	Tableware	Bowl	Ceramic	Earthenware	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Rim	1	5.24	-	1
SDI-10963	Temp-1	1	227	227	TU	1	20-30	Historic	Tableware	Mug	Ceramic	Earthenware	Kitchen	TP: Aqua stripe over clear glaze	-	-	-	-	-	-	Fragment	Rim	1	3.18	-	1
SDI-10963	Temp-1	1	228	228	TU	1	20-30	Historic	Tableware	Mug	Ceramic	Earthenware	Kitchen	TP: Pink stripe over clear glaze	-	-	-	-	-	-	Fragment	Rim	1	8.87	2 fragments	1
SDI-10963	Temp-1	1	229	229	TU	1	20-30	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	TP: red pattern over clear glaze	-	-	-	-	-	-	Fragment	Body	1	1.59	-	1
SDI-10963	Temp-1	1	230	230	TU	1	20-30	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Yellow glaze	-	-	-	-	-	-	Fragment	Body	1	2.65	-	1
SDI-10963	Temp-1	1	231	231	TU	1	20-30	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Yellow glaze	-	-	-	-	-	-	Fragment	Body	1	2.33	-	1
SDI-10963	Temp-1	1	232	232	TU	1	20-30	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Aqua glaze	-	-	-	-	-	-	Fragment	Body	5	11.27	-	1
SDI-10963	Temp-1	1	233	233	TU	1	20-30	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Aqua glaze	-	-	-	-	-	-	Fragment	Handle	1	3.10	-	1
SDI-10963	Temp-1	1	234	234	TU	1	20-30	Historic	Tableware	Dish	Ceramic	Earthenware	Kitchen	Aqua glaze	-	-	-	-	-	-	Fragment	Heel	1	8.20	-	1
SDI-10963	Temp-1	1	235	235	TU	1	20-30	Historic	Tableware	Plate	Ceramic	Earthenware	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Foot	1	14.42	2 fragments	1
SDI-10963	Temp-1	1	236	236	TU	1	20-30	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Clear glaze	R <script> / 160	-	-	-	-	-	Fragment	Body	1	2.34	-	1
SDI-10963	Temp-1	1	237	237	TU	1	20-30	Historic	Tableware	Plate	Ceramic	Porcelain	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Rim	1	5.00	2 fragments	1
SDI-10963	Temp-1	1	238	238	TU	1	20-30	Historic	Tableware	Vessel	Ceramic	Porcelain	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Rim	1	2.88	-	1
SDI-10963	Temp-1	1	239	239	TU	1	20-30	Historic	Kitchenware	Storage Jar	Ceramic	Earthenware	Kitchen	Brown glaze	-	-	-	-	-	-	Fragment	Body	1	16.24	-	1
SDI-10963	Temp-1	1	240	240	TU	1	20-30	Historic	Industrial	Ceramic	Ceramic	Earthenware	Building Materials	Pink glaze on one side	-	-	-	-	-	-	Fragment	Body	4	41.66	-	1
SDI-10963	Temp-1	1	241	241	TU	1	20-30	Historic	Industrial	Ceramic	Ceramic	Porcelain	Building Materials	Clear glaze on one side	-	-	-	-	-	-	Fragment	Body	1	23.76	2 fragments	1
SDI-10963	Temp-1	1	242	242	TU	1	20-30	Historic	Industrial	Sewer Pipe	Ceramic	Earthenware	Building Materials	No glaze	-	-	-	-	-	-	Fragment	Body	8	57.08	-	1
SDI-10963	Temp-1	1	243	243	TU	1	30-40	Historic	Tableware	Platter	Ceramic	Earthenware	Kitchen	TP: blue stripe over clear glaze	-	-	-	-	-	-	Fragment	Rim	1	26.75	-	1
SDI-10963	Temp-1	1	244	244	TU	1	30-40	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Yellow glaze	-	-	-	-	-	-	Fragment	Body	1	2.76	-	1
SDI-10963	Temp-1	1	245	245	TU	1	30-40	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Light blue glaze	-	-	-	-	-	-	Fragment	Body	1	1.15	-	1

Site Number	Field Designation	Site Locus	Catalog Number	Sort Number	Unit Type	Unit Number	Depth (cm)	Artifact Class	Object Type	Object Subtype	Material Class	Material Type	Functional Category	Modifications	Makers Mark	Manufacturer	Date Range	L (mm)	W (mm)	Th (mm)	Condition	Portion	Qty	Wgt (g)	Comments	Box
SDI-10963	Temp-1	1	246	246	TU	1	30-40	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	TP: black dot pattern over clear glaze	-	-	-	-	-	-	Fragment	Body	1	1.25	-	1
SDI-10963	Temp-1	1	247	247	TU	1	30-40	Historic	Tableware	Plate	Ceramic	Earthenware	Kitchen	TP: black pattern over clear glaze, molded rim	-	-	-	-	-	-	Fragment	Body	1	9.45	-	1
SDI-10963	Temp-1	1	248	248	TU	1	30-40	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Green glaze	-	-	-	-	-	-	Fragment	Rim	1	3.01	-	1
SDI-10963	Temp-1	1	249	249	TU	1	30-40	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	TP: red pattern over clear glaze	-	-	-	-	-	-	Fragment	Rim	1	2.08	-	1
SDI-10963	Temp-1	1	250	250	TU	1	30-40	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	TP: Blue stripe over clear glaze	-	-	-	-	-	-	Fragment	Rim	1	1.46	-	1
SDI-10963	Temp-1	1	251	251	TU	1	30-40	Historic	Tableware	Vessel	Ceramic	Porcelain	Kitchen	TP: Blue stripe over clear glaze, gold gilding	-	-	-	-	-	-	Fragment	Rim	1	2.54	-	1
SDI-10963	Temp-1	1	252	252	TU	1	30-40	Historic	Tableware	Vessel	Ceramic	Porcelain	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Body	1	5.78	-	1
SDI-10963	Temp-1	1	253	253	TU	1	40-50	Historic	Tableware	Teacup	Ceramic	Earthenware	Kitchen	HP: Blue floral pattern under clear glaze	-	-	-	-	-	-	Fragment	Rim	1	4.46	-	1
SDI-10963	Temp-1	1	254	254	TU	1	40-50	Historic	Tableware	Plate	Ceramic	Earthenware	Kitchen	HP: Blue floral pattern under clear glaze	-	-	-	-	-	-	Fragment	Body	1	3.49	-	1
SDI-10963	Temp-1	1	255	255	TU	1	40-50	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Body	1	3.82	-	1
SDI-10963	Temp-1	1	256	256	TU	1	40-50	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Body	1	1.34	-	1
SDI-10963	Temp-1	1	257	257	TU	1	40-50	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	TP: Blue pattern over clear glaze	-	-	-	-	-	-	Fragment	Body	1	1.62	-	1
SDI-10963	Temp-1	1	258	258	TU	1	40-50	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	TP: Blue pattern over clear glaze	-	-	-	-	-	-	Fragment	Body	1	1.54	-	1
SDI-10963	Temp-1	1	259	259	TU	1	40-50	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Aqua glaze	-	-	-	-	-	-	Fragment	Body	1	3.18	-	1
SDI-10963	Temp-1	1	260	260	TU	1	40-50	Historic	Tableware	Teacup	Ceramic	Porcelain	Kitchen	Clear glaze	NEW… / RIM…	-	-	-	-	-	Fragment	Base	1	20.46	-	1
SDI-10963	Temp-1	1	261	261	TU	1	40-50	Historic	Tableware	Vessel	Ceramic	Porcelain	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Body	3	5.51	-	1
SDI-10963	Temp-1	1	262	262	TU	1	40-50	Historic	Tableware	Teacup	Ceramic	Porcelain	Kitchen	TP: Floral pattern over clear glaze	-	-	-	-	-	-	Fragment	Body	1	1.63	-	1
SDI-10963	Temp-1	1	263	263	TU	1	40-50	Historic	Kitchenware	Storage Jar	Ceramic	Porcelain	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Rim	1	39.71	-	1
SDI-10963	Temp-1	1	264	264	TU	1	40-50	Historic	Industrial	Ceramic	Ceramic	Porcelain	Building Materials	Clear glaze on one side	-	-	-	-	-	-	Fragment	Body	1	6.78	-	1
SDI-10963	Temp-1	1	265	265	SC	20	Surface	Historic	Industrial	Ceramic	Ceramic	Porcelain	Building Materials	Clear glaze on one side	-	-	-	-	-	-	Fragment	Body	1	79.10	2 fragments	1
SDI-10963	Temp-1	1	266	266	SC	23	Surface	Historic	Tableware	Platter	Ceramic	Porcelain	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Food	1	35.96	-	1
SDI-10963	Temp-1	1	267	267	STP	1	20-30	Historic	Tableware	Vessel	Ceramic	Porcelain	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Body	1	5.23	-	1
SDI-10963	Temp-1	1	268	268	STP	9	0-10	Historic	Tableware	Bowl	Ceramic	Porcelain	Kitchen	Pink glaze	-	-	-	-	-	-	Fragment	Rim	1	8.61	-	1
SDI-10963	Temp-1	1	269	269	STP	10	10-20	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Clear glaze	-	-	-	-	-	-	Fragment	Body	1	0.70	-	1
SDI-10963	Temp-1	1	270	270	STP	10	20-30	Historic	Tableware	Vessel	Ceramic	Earthenware	Kitchen	Black and clear glaze	-	-	-	-	-	-	Fragment	Body	1	1.96	-	1
SDI-10963	Temp-1	1	271	271	STP	10	20-30	Historic	Industrial	Sewer Pipe	Ceramic	Earthenware	Building Materials	No glaze	-	-	-	-	-	-	Fragment	Body	1	0.53	-	1
SDI-10963	Temp-1	1	272	272	TU	1	30-40	Historic	Automotive	Fuse	Composite	Ceramic, Metal	Transportation	-	-	-	-	-	-	-	Complete	-	1	25.92	-	1
SDI-10963	Temp-1	1	273	273	SC	23	Surface	Historic	Automotive	Fuse	Composite	Ceramic, Metal	Transportation	-	AUTO-LITE	-	-	-	-	-	Complete	-	1	20.63	-	1
SDI-10963	Temp-1	1	274	274	STP	10	10-20	Historic	Automotive	Fuse	Composite	Ceramic, Metal	Transportation	-	CHAMPION F-14	-	-	-	-	-	Complete	-	1	20.53	-	1
SDI-10963	Temp-1	1	275	275	STP	10	10-20	Historic	Flatware	Serving Spoon	Metal	Zinc-plated	Transportation	-	-	-	-	-	-	-	Fragment	Head	1	13.12	-	1
SDI-10963	Temp-3	2	276	1	STP	1	0-10	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	2	18.45	-	1
SDI-10963	Temp-3	2	277	2	STP	3	0-10	Flaked Stone	Debitage	-	Lithic	Quartzite	-	-	-	-	-	-	-	-	Complete	-	1	89.03	-	1
SDI-10963	Temp-3	2	278	3	STP	9	0-10	Flaked Stone	Core	Nodule	Lithic	Metavolcanic	-	-	-	-	-	63.96	54.77	37.26	Fragment	-	1	130.86	-	1
SDI-10963	Temp-3	2	279	4	SC	1	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	2	9.93	-	1
SDI-10963	Temp-3	2	280	5	SC	2	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	15.73	-	1
SDI-10963	Temp-3	2	281	6	SC	3	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	35.86	-	1
SDI-10963	Temp-3	2	282	7	SC	5	Surface	Flaked Stone	Flake Tool	-	Lithic	Metavolcanic	-	-	-	-	-	60.87	43.95	19.72	Complete	-	1	47.25	-	1
SDI-10963	Temp-3	2	283	8	SC	7	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	2	52.82	-	1
SDI-10963	Temp-3	2	284	9	SC	9	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	2	40.37	-	1
SDI-10963	Temp-3	2	285	10	SC	11	Surface	Flaked Stone	Flake Tool	-	Lithic	Metavolcanic	-	-	-	-	-	34.56	28.09	7.81	Complete	-	1	6.45	-	1
SDI-10963	Temp-3	2	286	11	SC	13	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	2	27.94	-	1
SDI-10963	Temp-3	2	287	12	SC	13	Surface	Flaked Stone	Core	Nodule	Lithic	Metavolcanic	-	-	-	-	-	54.85	43.02	37.77	Complete	-	1	82.02	-	1
SDI-10963	Temp-3	2	288	13	SC	15	Surface	Flaked Stone	Adze	-	Lithic	Metavolcanic	-	-	-	-	-	79.75	68.05	30.58	Complete	-	1	167.25	-	1
SDI-10963	Temp-3	2	289	14	SC	16	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	94.22	-	1
SDI-10963	Temp-3	2	290	15	SC	17	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	2	96.53	-	1
SDI-10963	Temp-3	2	291	16	SC	18	Surface	Flaked Stone	Adze	-	Lithic	Metavolcanic	-	-	-	-	-	73.38	75.15	51.49	Complete	-	1	295.24	-	1
SDI-10963	Temp-3	2	292	17	SC	19	Surface	Flaked Stone	Flake Tool	-	Lithic	Metavolcanic	-	-	-	-	-	26.32	30.71	7.58	Complete	-	1	5.40	-	1
SDI-10963	Temp-3	2	293	18	SC	19	Surface	Flaked Stone	Flake Tool	-	Lithic	Metavolcanic	-	-	-	-	-	40.35	58.35	18.71	Complete	-	1	51.18	-	1
SDI-10963	Temp-3	2	294	19	SC	19	Surface	Flaked Stone	Adze	-	Lithic	Metavolcanic	-	-	-	-	-	60.63	74.55	27.33	Complete	-	1	127.28	-	1
SDI-10963	Temp-4	3	295	1	SC	1	Surface	Flaked Stone	Flake Tool	-	Lithic	Metavolcanic	-	-	-	-	-	65.25	49.42	20.36	Complete	-	1	84.29	-	1
SDI-10963	Temp-4	3	296	2	SC	3	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	9.27	-	1
SDI-10963	Temp-4	3	297	3	SC	5	Surface	Flaked Stone	Adze	-	Lithic	Metavolcanic	-	-	-	-	-	52.50	53.96	30.51	Complete	-	1	100.01	-	1
SDI-10963	Temp-4	3	298	4	SC	6	Surface	Flaked Stone	Flake Tool	-	Lithic	Metavolcanic	-	-	-	-	-	44.24	43.72	14.88	Complete	-	1	33.98	-	1
SDI-10963	Temp-4	3	299	5	SC	7	Surface	Flaked Stone	Adze	-	Lithic	Metavolcanic	-	-	-	-	-	106.12	94.80	38.56	Complete	-	1	492.42	-	1

Site Number	Field Designation	Site Locus	Catalog Number	Sort Number	Unit Type	Unit Number	Depth (cm)	Artifact Class	Object Type	Object Subtype	Material Class	Material Type	Functional Category	Modifications	Makers Mark	Manufacturer	Date Range	L (mm)	W (mm)	Th (mm)	Condition	Portion	Qty	Wgt (g)	Comments	Box
SDI-10963	Temp-4	3	300	6	SC	10	Surface	Flaked Stone	Core	Nodule	Lithic	Metavolcanic	-	-	-	-	-	81.37	67.24	31.88	Complete	-	1	251.61	-	1
SDI-10963	Temp-4	3	301	7	SC	10	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	17.32	-	1
SDI-10963	Temp-4	3	302	8	SC	12	Surface	Flaked Stone	Adze	-	Lithic	Metavolcanic	-	-	-	-	-	66.23	81.06	38.72	Complete	-	1	217.30	-	1
SDI-10963	Temp-4	3	303	9	SC	12	Surface	Flaked Stone	Core	Nodule	Lithic	Metavolcanic	-	-	-	-	-	67.64	49.18	48.21	Complete	-	1	245.70	-	1
SDI-10963	Temp-4	3	304	10	SC	12	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	36.96	-	1
SDI-10963	Temp-4	3	305	11	SC	13	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	8.14	-	1
SDI-10963	Temp-4	3	306	12	SC	14	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	51.48	-	1
SDI-10963	Temp-4	3	307	13	SC	15	Surface	Flaked Stone	Flake Tool	-	Lithic	Metavolcanic	-	-	-	-	-	39.57	44.80	22.43	Complete	-	1	44.50	-	1
SDI-10963	Temp-4	3	308	14	SC	16	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	42.83	-	1
SDI-10963	Temp-4	3	309	15	SC	18	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	259.08	-	1
SDI-10963	Temp-4	3	310	16	SC	20	Surface	Flaked Stone	Adze	-	Lithic	Metavolcanic	-	-	-	-	-	70.56	62.72	23.41	Complete	-	1	110.82	-	1
SDI-10963	Temp-4	3	311	17	SC	22	Surface	Flaked Stone	Flake Tool	-	Lithic	Metavolcanic	-	-	-	-	-	31.15	31.86	14.39	Complete	-	1	14.83	-	1
SDI-10963	Temp-4	3	312	18	SC	22	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	12.85	-	1
SDI-10963	Temp-4	3	313	19	SC	24	Surface	Flaked Stone	Adze	-	Lithic	Metavolcanic	-	-	-	-	-	63.16	67.77	27.25	Complete	-	1	116.03	-	1
SDI-10963	Temp-4	3	314	20	SC	24	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	80.43	-	1
SDI-10963	Temp-5	4	315	1	SC	1	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	31.66	-	1
SDI-10963	Temp-5	4	316	2	SC	6	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	0.29	-	1
SDI-10963	Temp-5	4	317	3	SC	6	Surface	Flaked Stone	Tested Raw Material	-	Lithic	Metavolcanic	-	-	-	-	-	83.03	60.42	45.03	Complete	-	1	270.30	-	1
SDI-10963	Temp-6	5	318	1	SC	2	Surface	Flaked Stone	Adze	-	Lithic	Metavolcanic	-	-	-	-	-	79.82	67.95	34.41	Complete	-	1	210.31	-	1
SDI-10963	Temp-6	5	319	2	SC	5	Surface	Flaked Stone	Adze	-	Lithic	Metavolcanic	-	-	-	-	-	59.01	72.72	25.99	Complete	-	1	148.99	-	1
SDI-10963	Temp-6	5	320	3	SC	6	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	103.16	-	1
SDI-10963	Temp-6	5	321	4	SC	11	Surface	Flaked Stone	Adze	-	Lithic	Metavolcanic	-	-	-	-	-	51.20	68.64	51.54	Complete	-	1	261.03	-	1
SDI-10963	Temp-6	5	322	5	SC	13	Surface	Flaked Stone	Angular Hammer	Core	Lithic	Volcanic	-	-	-	-	-	67.52	95.40	38.83	Complete	-	1	296.82	-	1
SDI-10963	Temp-6	5	323	6	SC	13	Surface	Flaked Stone	Flake Tool	-	Lithic	Metavolcanic	-	-	-	-	-	57.26	57.89	16.51	Complete	-	1	64.82	-	1
SDI-10963	Temp-6	5	324	7	SC	14	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	2	39.56	-	1
SDI-10963	Temp-6	5	325	8	SC	16	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	5.86	-	1
SDI-10963	Temp-6	5	326	9	SC	18	Surface	Flaked Stone	Core	Nodule	Lithic	Metavolcanic	-	-	-	-	-	80.32	57.31	47.79	Complete	-	1	239.07	-	1
SDI-10963	Temp-6	5	327	10	SC	19	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	-	-	-	-	-	Complete	-	1	43.24	-	1

Lumina Phase II Testing (18-005)
CA-SDI-14094
Master Catalog, 2018

Site Number	Catalog Number	Unit Type	Unit Number	Depth (cm)	Artifact Class	Object Type	Object Subtype	Material Class	Material Type	L (mm)	W (mm)	Th (mm)	Condition	Portion	Qty	Wgt (g)
SDI-14094	1	SC	2	Surface	Flaked Stone	Debitage	Primary	Lithic	Metavolcanic	-	-	-	Complete	-	1	21.25
SDI-14094	2	SC	2	Surface	Flaked Stone	Debitage	Primary	Lithic	Metavolcanic	-	-	-	Complete	-	1	15.44

Lumina Phase II Testing (18-005)
CA-SDI-22261
Temp Site 2
Master Catalog, 2018

Site Number	Field Designation	Catalog Number	Unit Type	Unit Number	Depth (cm)	Artifact Class	Object Type	Object Subtype	Material Class	Material Type	L (mm)	W (mm)	Th (mm)	Condition	Portion	Qty	Wgt (g)
SDI-22261	Temp-2	1	SC	2	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	Complete	-	1	69.96
SDI-22261	Temp-2	2	SC	3	Surface	Flaked Stone	Core	Nodule	Lithic	Metavolcanic	77.48	52.90	68.97	Complete	-	1	295.95
SDI-22261	Temp-2	3	SC	3	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	Complete	-	1	89.18
SDI-22261	Temp-2	4	SC	4	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	Complete	-	1	45.00

Lumina Phase II Testing (18-005)
Isolates
Master Catalog, 2018

Primary Number	Field Designation	Catalog Number	Unit Type	Unit Number	Depth (cm)	Artifact Class	Object Type	Object Subtype	Material Class	Material Type	L (mm)	W (mm)	Th (mm)	Condition	Portion	Qty	Wgt (g)
37-037030	ISO-1	1	SC	1	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	Complete	-	2	119.55
37-037031	ISO-3	1	SC	3	Surface	Flaked Stone	Biface	Blank	Lithic	Metavolcanic	29.1	47.5	15.79	Fragment	Proximal	1	23.63
37-037032	ISO-5	1	SC	5	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	Complete	-	1	116.72
37-037033	ISO-6	1	SC	6	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	Complete	-	2	2.46
37-037034	ISO-7	1	SC	7	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	Complete	-	1	31.65
37-037035	ISO-9	1	SC	9	Surface	Flaked Stone	Debitage	-	Lithic	Metavolcanic	-	-	-	Complete	-	1	40.98

APPENDIX F

Confidential Maps

(Deleted for Public Review; Bound Separately)

HISTORIC RESOURCE TECHNICAL REPORT FOR 2160 CACTUS ROAD

SAN DIEGO, CALIFORNIA

Project No. _____

Submitted to:

City of San Diego
Development Services Department
1222 First Avenue, MS 501
San Diego, California 92101

Prepared for:

ColRich
444 West Beech Street, Suite 300
San Diego, California 92101

And:

T&B Planning, Inc.
17542 East 17th Street, Suite 100
Tustin, California 92780

Prepared by:

Brian F. Smith and Associates, Inc.
14010 Poway Road, Suite A
Poway, California 92064

March 27, 2018

Archaeological Database Information

Author(s):	Brian F. Smith and J.R.K. Stropes
Consulting Firm:	Brian F. Smith and Associates, Inc. 14010 Poway Road, Suite A Poway, California 92064 (858) 484-0915
Report Date:	March 27, 2018
Report Title:	Historic Resource Technical Report for 2160 Cactus Road, San Diego, California (Project No. _____)
Prepared for:	ColRich 444 West Beech Street, Suite 300 San Diego, California 92101
And:	T&B Planning, Inc. 17542 East 17th Street, Suite 100 Tustin, California 92780
Submitted to:	City of San Diego Development Services Department 1222 First Avenue, MS 501 San Diego, California 92101
USGS Quadrangle:	*Otay Mesa, California* (7.5 minute)
Study Area:	2160 Cactus Road
Key Words:	USGS *Otay Mesa, California* topographic quadrangle; City of San Diego; historic structure evaluation; not eligible for listing on the SDRHR, the CRHR, or the NRHP; no mitigation or preservation required.

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I. EXECUTIVE SUMMARY

This Historic Resource Technical Report was prepared in conjunction with a single disciplinary review to determine the potential historical and architectural significance of the buildings located at 2160 Cactus Road in the San Diego community of Otay Mesa, California. Brian F. Smith and Associates, Inc. (BFSA) was contracted to complete this evaluation to determine if the buildings constitute a significant historic resource as defined by City of San Diego Historical Resources Board (HRB) eligibility criteria (Appendix E of the guidelines), National Register of Historic Places (NRHP) criteria, and California Register of Historical Resources (CRHR) criteria. The evaluation would determine whether any future development of the property would have an adverse effect on the built environment.

The property is located at 2160 Cactus Road in the San Diego community of Otay Mesa, California. The buildings are located on Assessor's Parcel Number (APN) 646-100-20. According to the legal description of the property, the property includes "the east half of the northeast quarter of the southwest quarter of Section 33, Township 18 South, Range 1 West, San Bernardino Meridian, according to the United States Government Survey approved September 11, 1879, excepting therefrom the easterly 200 feet of the southerly 200 feet thereof." BFSA evaluated the architectural and historic significance of the buildings at 2160 and 2380 Cactus Road in conformance with San Diego Municipal Code Section 143.0212, the California Environmental Quality Act (CEQA), and City of San Diego HRB eligibility criteria.

Four buildings that meet the 45-year age threshold for historic structures are located within the parcel. The buildings include a Gable and Wing Roof Minimal Traditional style single-family residence with Ranch style influences, a cabin, and two offices. The building records indicate that the single-family residence was constructed in 1944 and that the cabin was constructed in 1950. Dates of construction for the offices are between 1971 and 1974. Despite being an example of the Gable and Wing Roof Minimal Traditional style with Ranch style influences, the single-family residence does not represent an exemplary form of historical, archaeological, cultural, economic, political, aesthetic, landscape, or architectural development, nor is it associated with any noteworthy individuals. In addition, the building has suffered impacts to its integrity due to changes to its setting that have occurred since the 1970s. The remaining structures are also not representative of any form of historical, archaeological, cultural, economic, political, aesthetic, landscape, or architectural development and are not associated with any noteworthy individuals. Therefore, the 2160 Cactus Road buildings are determined to be ineligible for listing on the San Diego Register of Historic Resources (SDRHR), the CRHR, and the NRHP under any designation criteria. As a result, any proposed, future development will not adversely impact any significant cultural resources.

II. INTRODUCTION

Report Organization

The purpose of this study is to evaluate the potential historical and/or architectural significance of the buildings located at 2160 Cactus Road in the San Diego community of Otay Mesa, California. As part of the single disciplinary review process, the City of San Diego has required an evaluation of the existing single-family residence and associated outbuildings to determine if the buildings are potentially significant. Because this project requires approval from the City of San Diego, CEQA and City of San Diego HRB eligibility criteria were used for this evaluation. Therefore, criteria for listing on the SDRHR, CRHR, and NRHP are the appropriate standards for which to judge significance for the resource.

Project Area

The resources evaluated in this study are located within APN 646-100-20. Maps of the project location are provided in Appendix C. The property is located southwest of the intersection of Cactus Road and Airway Road. The lot includes a single-family residence, a cabin, and two offices.

Project Personnel

This evaluation was conducted by Jennifer R.K. Stropes and Brian F. Smith (Appendix E). Word processing, editing, and graphics production services were provided by BFSA staff.

III. PROJECT SETTING

Physical Project Setting

The subject property is located within the Otay Mesa community of San Diego, northwest of Siempre Viva Road and west of Cactus Road within the CVSP area. The APE consists of a relatively flat upper mesa overlooking canyons to the northwest and southwest. Spring Canyon is situated along the northwestern boundary of the project, while an offshoot of Wruck Canyon is located within the southwestern corner of the project. Elevations range from approximately 510 to 500 feet above mean sea level (AMSL) on the upper mesa, while elevations along the canyon slopes and within the canyons range between approximately 470 and 430 feet AMSL. Generally, soils on the APE are labeled as Stockpen gravelly clay loam, zero to two percent slopes, although the areas in the northwest and southwest overlooking Spring and Wruck canyons are characterized as Olivenhain cobbly loam, 30 to 50 percent slopes.

The project is generally situated in a transitional region between the relatively level Otay Mesa and the rolling hills and gentle slopes at the base of the San Ysidro Mountains to the north and east. This geologic area consists of a series of knolls and mesas that are interrupted by small canyons and drainages located in the Coastal Plains Physiographic Province. Much of this area is

composed of Pleistocene and Upper Pliocene marine deposits, currently known as the Lindavista, Sweitzer, and San Diego formations (Biehler 1979). The San Diego Formation is composed of gray friable sandstone and conglomerate and the Lindavista and Sweitzer formations mantle the majority of the mesa tops. Following the deposition of the San Diego Formation, the Lindavista and Sweitzer formations consist of nearshore marine and nonmarine sediments deposited on a wave-cut terrace. The Lindavista Formation is composed of moderate, reddish-brown, interbedded sandstone and conglomerate, and the Sweitzer Formation is composed of brown, reddish-brown, and red poorly sorted sandstone and conglomerate.

The Otay River Valley, located north of the APE, the major canyon bisecting Otay Mesa from east to west, is composed of Quaternary, nonmarine terrace deposits and recent alluvium derived from rocks in the area. The juncture of the coastal plain and foothill provinces to the east is comprised of Plio-Pleistocene, nonmarine deposits, which typically consist of angular metavolcanic detritus. The hills to the north and east of the project are comprised of Jurassic volcanics, a collection of mildly metamorphosed volcanic and volcaniclastic rock formations characterized by the Black Mountain or Santiago Peak Volcanics (Biehler 1979). Santiago Peak Volcanics are represented throughout this area of San Diego County by outcrops of basalt and fine-grained green metavolcanics known locally as felsite.

The biological setting of the project area is dominated by an agricultural vegetative community, which primarily consists of introduced grasses with scant areas of native coastal sage scrub adjacent to drainages. These communities are dependent upon the amount of precipitation that the area receives. The amount of seasonal precipitation is related to the major landforms that exist throughout San Diego County. These environments tend to support a wide variety of wildlife, particularly birds and small mammals (Beauchamp 1986).

Historical Overview

Exploration Period (1530 to 1769)

The historic period around San Diego Bay began with the landing of Juan Rodriguez Cabrillo and his men in 1542 (Chapman 1925). Sixty years after the Cabrillo expeditions (1602 to 1603), an expedition under Sebastian Vizcaíno made an extensive and thorough exploration of the Pacific coast. Although his voyage did not extend beyond the northern limits of the Cabrillo track, Vizcaíno had the most lasting effect on the nomenclature of the coast. Many of the names Vizcaíno gave to various locations throughout the region have survived to the present time, whereas nearly every one of Cabrillo's has faded from use. For example, Cabrillo gave the name "San Miguel" to the first port at which he stopped in what is now the United States; 60 years later, Vizcaíno changed the port name to "San Diego" (Rolle 1969).

Spanish Colonial Period (1769 to 1821)

The Spanish occupation of the claimed territory of Alta California took place during the reign of King Carlos III of Spain (Engelhardt 1920). Jose de Gálvez, a powerful representative of

the king in Mexico, conceived the plan to colonize Alta California and thereby secure the area for the Spanish Crown (Rolle 1969). The effort involved both a military and religious contingent, where the overall intent of establishing forts and missions was to gain control of the land and the native inhabitants through conversion. Actual colonization of the San Diego area began on July 16, 1769 when the first Spanish exploring party, commanded by Gaspar de Portolá (with Father Junípero Serra in charge of religious conversion of the native populations), arrived by the overland route to San Diego to secure California for the Spanish Crown (Palou 1926). The natural attraction of the harbor at San Diego and the establishment of a military presence in the area solidified the importance of San Diego to the Spanish colonization of the region and the growth of the civilian population. Missions were constructed from San Diego to the area as far north as San Francisco. The mission locations were based upon a number of important territorial, military, and religious considerations. Grants of land were made to persons who applied, but many tracts reverted back to the government for lack of use. As an extension of territorial control by the Spanish Empire, each mission was placed so as to command as much territory and as large a population as possible. While primary access to California during the Spanish Period was by sea, the route of El Camino Real served as the land route for transportation, commercial, and military activities within the colony. This route was considered to be the most direct path between the missions (Rolle 1969; Caughey 1970). As increasing numbers of Spanish and Mexican peoples, as well as the later Americans during the Gold Rush, settled in the area, the Native American populations diminished as they were displaced or decimated by disease (Carrico and Taylor 1983).

Mexican Period (1821 to 1846)

On September 16, 1810, the priest Father Miguel Hidalgo y Costilla started a revolt against Spanish rule. He and his untrained Native American followers fought against the Spanish, but his revolt was unsuccessful and Father Hidalgo was executed. After this setback, Father José Morales led the revolutionaries, but he too failed and was executed. These two men are still symbols of Mexican liberty and patriotism. After the Mexican-born Spanish and the Catholic Church joined the revolution, Spain was finally defeated in 1821. Mexican Independence Day is celebrated on September 16 of each year, signifying the anniversary of the start of Father Hidalgo's revolt. The revolution had repercussions in the northern territories, and by 1834, all of the mission lands had been removed from the control of the Franciscan Order under the Acts of Secularization. Without proper maintenance, the missions quickly began to disintegrate, and after 1836, missionaries ceased to make regular visits inland to minister the needs of the Native Americans (Engelhardt 1920). Large tracts of land continued to be granted to persons who applied for them or who had gained favor with the Mexican government. Grants of land were also made to settle government debts and the Mexican government was called upon to reaffirm some older Spanish land grants shortly before the Mexican-American War of 1846 (Moyer 1969).

Anglo-American Period (1846 to Present)

California was invaded by United States troops during the Mexican-American War from 1846 to 1848. The acquisition of strategic Pacific ports and California land was one of the principal objectives of the war (Price 1967). At the time, the inhabitants of California were practically defenseless, and they quickly surrendered to the United States Navy in July of 1847 (Bancroft 1886).

The cattle ranchers of the "counties" of southern California prospered during the cattle boom of the early 1850s. They were able to "reap windfall profit … pay taxes and lawyer's bills … and generally live according to custom" (Pitt 1966). However, cattle ranching soon declined, contributing to the expansion of agriculture. With the passage of the "No Fence Act," San Diego's economy shifted from raising cattle to farming (Robinson 1948). The act allowed for the expansion of unfenced farms, which was crucial in an area where fencing material was practically unavailable. Five years after its passage, most of the arable lands in San Diego County had been patented as either ranchos or homesteads, and growing grain crops replaced raising cattle in many of the county's inland valleys (Blick 1976; Elliott 1883 [1965]).

By 1870, farmers had learned to dry farm and were coping with some of the peculiarities of San Diego County's climate (*San Diego Union*, February 6, 1868; Van Dyke 1886). Between 1869 and 1871, the amount of cultivated acreage in the county rose from less than 5,000 acres, to more than 20,000 acres (*San Diego Union*, January 2, 1872). Of course, droughts continued to hinder the development of agriculture (Crouch 1915; *San Diego Union*, November 10, 1870; Shipek 1977). Large-scale farming in San Diego County was limited by a lack of water and the small size of arable valleys. The small urban population and poor roads also restricted commercial crop growing. Meanwhile, cattle continued to be grazed in parts of inland San Diego County. In the Otay Mesa area, for example, the "No Fence Act" had little effect on cattle farmers because ranches were spaced far apart and natural ridges kept the cattle out of nearby growing crops (Gordinier 1966).

During the first two decades of the twentieth century, the population of San Diego County continued to grow. The population of the inland county declined during the 1890s, but between 1900 and 1910, it rose by about 70 percent. The pioneering efforts were over, the railroads had broken the relative isolation of southern California, and life in San Diego County had become similar to other communities throughout the west. After World War I, the history of San Diego County was primarily determined by the growth of San Diego Bay. In 1919, the United States Navy decided to make the bay the home base for the Pacific Fleet (Pourade 1967), as did the aircraft industry during the 1920s (Heiges 1976). The establishment of these industries led to the growth of the county as a whole; however, most of the civilian population growth occurred in the north county coastal areas, where the population almost tripled between 1920 and 1930. During this time period, the history of inland San Diego County was subsidiary to that of the city of San Diego, which had become a Navy center and an industrial city (Heiges 1976). In inland San Diego County, agriculture became specialized and recreational areas were established in the mountain

and desert areas. Just before World War II, urbanization began to spread to the inland parts of the county.

Project Area and Vicinity

Previous research has indicated that the majority of archaeological sites within the Otay Mesa area represent a repetitive pattern of location characteristics and artifact assemblages associated with the prehistoric occupation of this region (Carrico et al. 1992; Smith 1995). Prehistoric sites in the vicinity of the project are generally located on elevations near drainages; larger, more diverse sites are located in areas of vegetation transition, while smaller sites are located in zones of single or limited biological resources. Over time, environmental changes during the Archaic Period likely had a significant impact on the subsistence pattern in the Otay Mesa area. Therefore, in inland areas of the coastal zone, such as Otay Mesa, the semi-arid climate resulted in a concentration of water and other resources in drainage areas, resulting in a drainage-oriented settlement pattern.

Since the Spanish intrusion into the region, Otay Mesa has been used for ranching and agriculture. After Mexican independence in the mid-nineteenth century, Rancho Otay (Estudillo) operated under one of the Mexican land grants. Other nearby land grants included Rancho Janal to the east and Rancho de La Nacíon to the north. After the United States annexed California, the "Homestead Act" and the "No Fence Act" drew additional Euro-American settlers to Otay Mesa (Gordinier 1966). Expected resources would include ranching, agricultural, homesteading, and farmstead features, as well as eucalyptus groves, agricultural fields, or irrigation systems.

IV. METHODS AND RESULTS

Archival Research

Records relating to the ownership and developmental history of this project were sought to fulfill the requirements of Appendix E of the City of San Diego HRB guidelines, as well as to identify any associated historic persons, historic events, or architectural significance. Records research was conducted at the BFSA research library, the San Diego Historical Society, the San Diego Public Library, and the offices of the San Diego Assessor/County Recorder/County Clerk. Sanborn Fire Insurance maps were searched for at the San Diego Public Library. Title records for the property were also obtained. Appendix C contains maps of the property, including a City of San Diego 800' Scale Engineering Map, historic USGS maps from 1943 and 1955, a current USGS project location map, and the current Assessor's parcel map (Figures 1 through 5). No Sanborn maps are available for the property as it is located outside the San Diego, Chula Vista, and San Ysidro coverage areas.

Field Survey

Photographic documentation surveys were conducted by BFSA on January 24 and 29, 2018

(Plates 1 through 16). Preparation of architectural descriptions was conducted in the field and supplemented using the photographic documentation. Additional information was drawn from supplemental research efforts and incorporated into this report.

Description of Surveyed Resources

According to the Assessor's building record (Appendix A), the single-family residence at 2160 Cactus Road was originally constructed in 1944 in the Gable-and-Wing Roof Minimal Traditional architectural style with Ranch style influences by an unknown builder. The residence is a single-story structure of standard frame construction on a concrete foundation with a stucco exterior. The single-family residence was constructed in an "L" shape, with the entryway located under a full-length front porch on the south façade of the northeastward-projecting wing. The residence exhibits a low-pitched, cross-gabled roof covered in composite shingles with exposed eaves and a moderate eave overhang. Original windows are present everywhere except for a single window on the eastern portion of the north façade, which has been boarded-up. Original windows consist of 1/1 wood-framed, double-hung windows, many of which exhibit fixed screens.

The primary, south façade of the residence exhibits two entryways; one located under the full-length front porch near the center of the façade and one located at the western end of the façade (Plate 1). The entryway on the western end of the south façade is accessed via concrete steps covered in brown ceramic tile. A small awning is located above the wood door with a one-quarter light glass insert. A set of two double-hung windows is located immediately east of the western entryway. Another double-hung window is located to the east of the central entryway, under the front porch.

The west façade of the residence exhibits one set of grouped, double-hung windows and one stand-alone, double-hung window. A water heater closet has also been constructed on the west façade of the residence, in between the windows at an unknown date (see Plate 2).

The east façade of the residence exhibits a group of three double-hung windows set under a hipped, shingled shed roof with Spanish tile accents along the hip (Plate 3). An attic vent is located above the window in the gable end. The north façade possesses three double-hung windows and a single wood entry door with a one-quarter light glass insert. A likely addition is also located on the eastern portion of the north façade, consisting of a small bump-out with a flat roof constructed at an unknown date (Plate 4).

The cabin is located north of the single-family residence and is finished with stucco that is similar to that found on the residence. According to the building record, the cabin was constructed in 1950. It is a small, rectangular building with a front-gabled shingled roof, two entry doors, and four 1/1 wood-framed, double-hung windows. The entry doors are located on the south and east façades and consist of solid wood doors. The door on the south façade exhibits a modern screen door installed in front of the wood door (Plate 5). The window on the east façade has been boarded up, but original framing is still present (Plate 6). A window on the west façade and a window on the north façade do not appear to have been altered (Plates 7 and 8).

Office 1 is located immediately north of the cabin. The office building was constructed between 1971 and 1974 with wood framing and plywood walls (Plate 9). The roof is front-gabled and covered in composite shingles. The building exhibits two wood entry doors on the east façade (see Plate 9), three wood-framed hopper windows on the south façade (Plate 10), and one aluminum-framed three-pane casement window on the west façade (Plate 11). An awning with a corrugated metal roof was constructed off of the north façade of the office building between 1971 and 1981 (Plate 12).

Office 2 is located south of the single-family residence. The original office building is located within a complex of various structural additions that have been made to the property, most of which exhibit partial walls constructed of re-used materials (Plate 13). Like Office 1, Office 2 was constructed using wood framing and plywood walls. The roof is front-gabled and covered in composite shingles. On the east façade, the building exhibits a set of double wooden doors with 1/1 wood-framed window insets in each door (see Plate 13). A corrugated metal wall encloses the eastern quarter of the building beneath a corrugated metal roof. The remainder of Office 2 to the west is not covered by this secondary roof structure. A total of 12 windows are located on the building; six on the north façade (Plate 14) and six on the south façade (see Plate 13).

Between 1981 and 1989, various corrugated metal awnings, an apartment building, and poured concrete structures with no windows were constructed surrounding Office 2 (Plates 15 and 16). Additional awnings were also added to the north façade of Office 1 between 1971 and 1981 (see Plate 12).

Because no building permits or historic photos are available for the property, construction dates and changes to the buildings have not been well documented. While only minimal changes appear to have been made to the single-family residence, cabin, and Office 1, the construction of the roof structure over a portion of Office 2 and the various other awnings and poured concrete walls have substantially altered the buildings' setting and feeling. In addition, the 2160 Cactus Road property is in a state of advanced deterioration due to lack of maintenance. Much of the wood used in the walls of the offices and the framing of windows and doors of the cabin and residence has begun to crack and exhibits signs of termite damage and dry rot. No original landscaping remains.

Plate 1

View of the South Façade of the Single-Family Residence, Facing Northwest

2160 Cactus Road

Plate 2

View of the West Façade of the Single-Family Residence, Facing East

2160 Cactus Road

Plate 3

View of the East Façade of the Single-Family Residence, Facing West

2160 Cactus Road

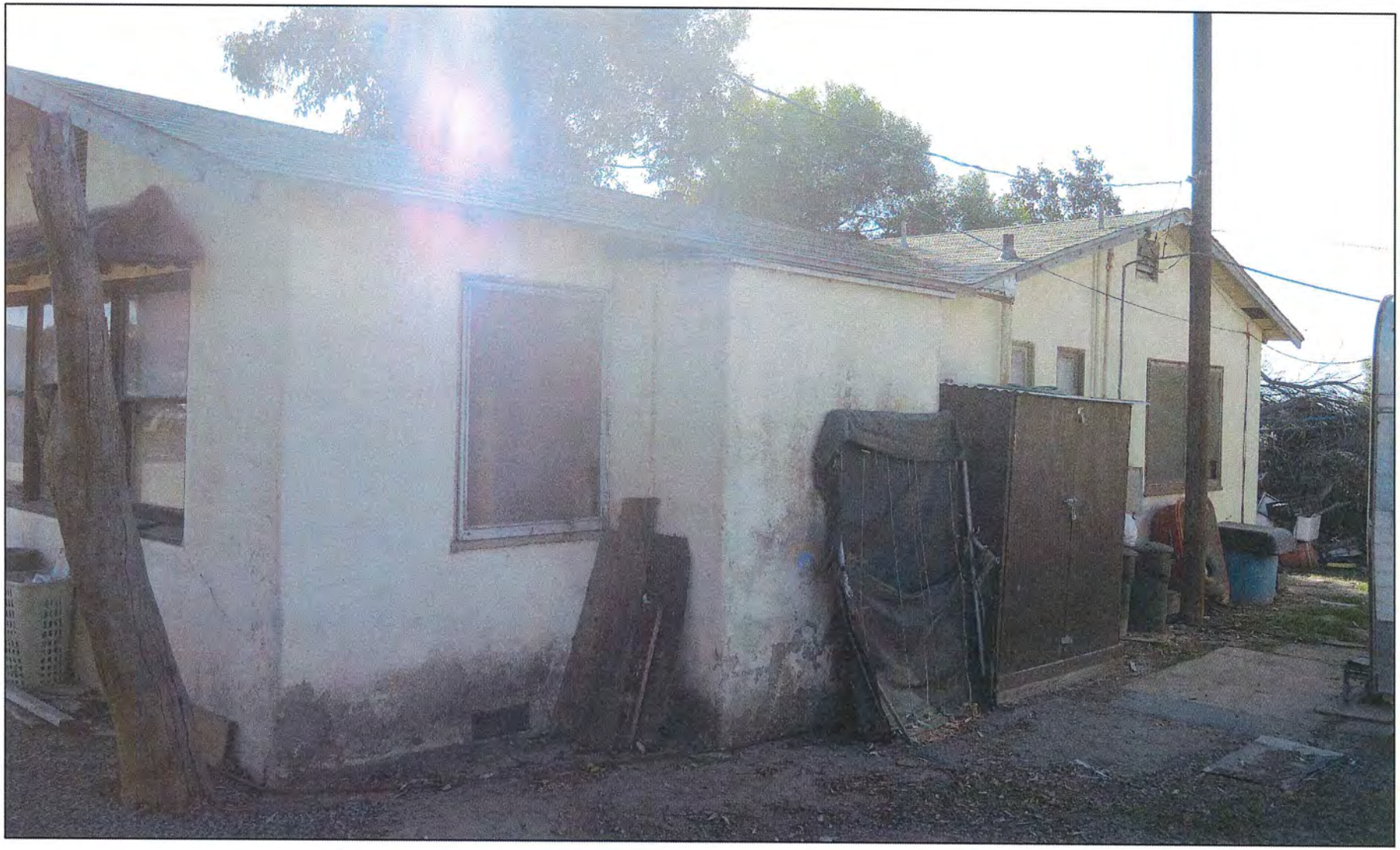


Plate 4

View of the North Façade of the Single-Family Residence, Facing Southwest

2160 Cactus Road

Plate 5

View of the South Façade of the Cabin, Facing Northeast

2160 Cactus Road

Plate 6

View of the East Façade of the Cabin, Facing West

2160 Cactus Road

Plate 7

View of the West Façade of the Cabin, Facing East

2160 Cactus Road

Plate 8

View of the North Façade of the Cabin, Facing Southwest

2160 Cactus Road

Plate 9

View of the East Façade of Office 1, Facing West

2160 Cactus Road

Plate 10

View of the Southeast Corner of Office 1, Facing Northwest

2160 Cactus Road

Plate 11

View of the West Façade of Office 1, Facing East

2160 Cactus Road

Plate 12

View of the North Façade of Office 1 Showing the Awning Addition, Facing Southwest

2160 Cactus Road

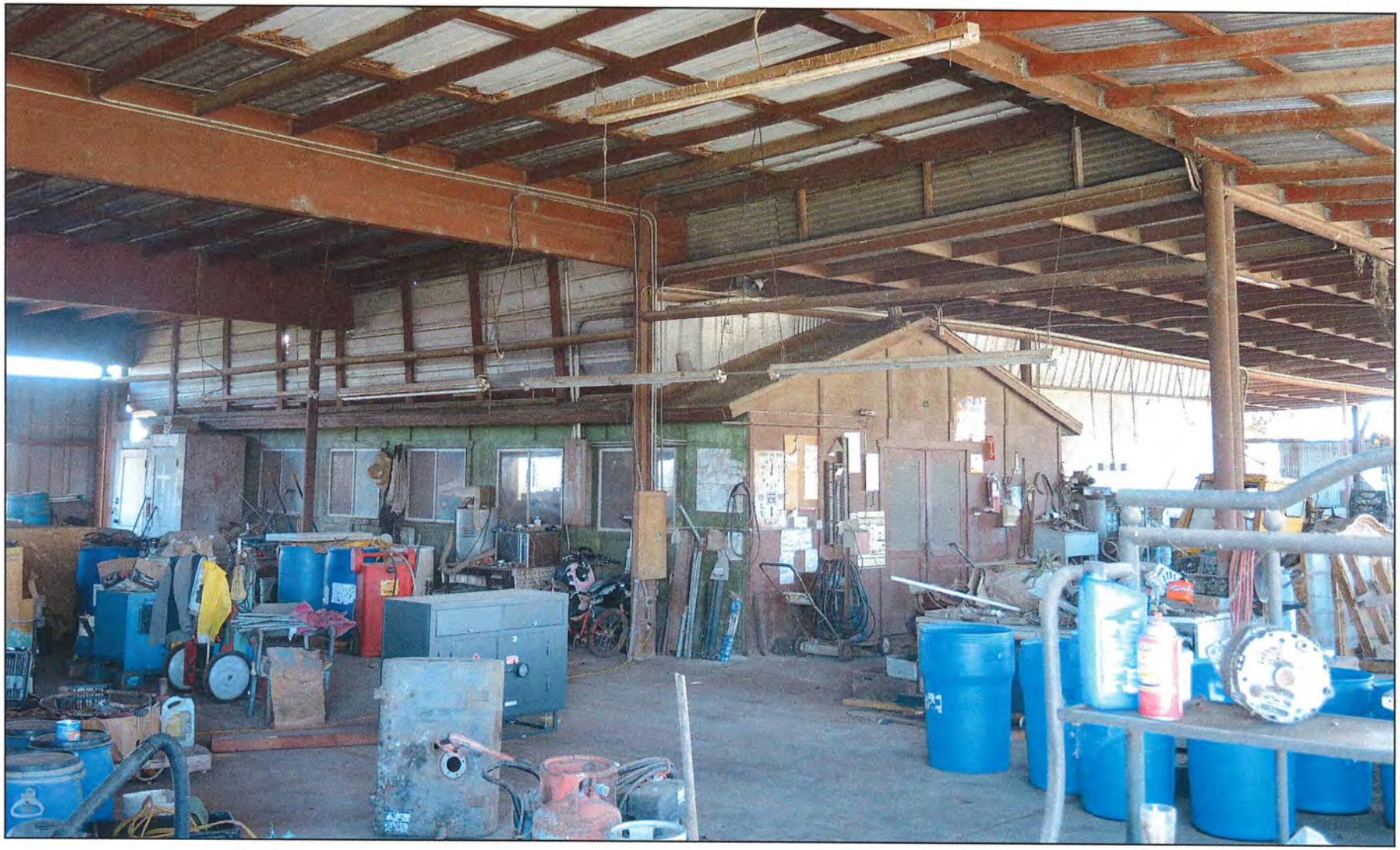


Plate 13

View of the Southeast Corner of Office 2, Facing Northwest

2160 Cactus Road

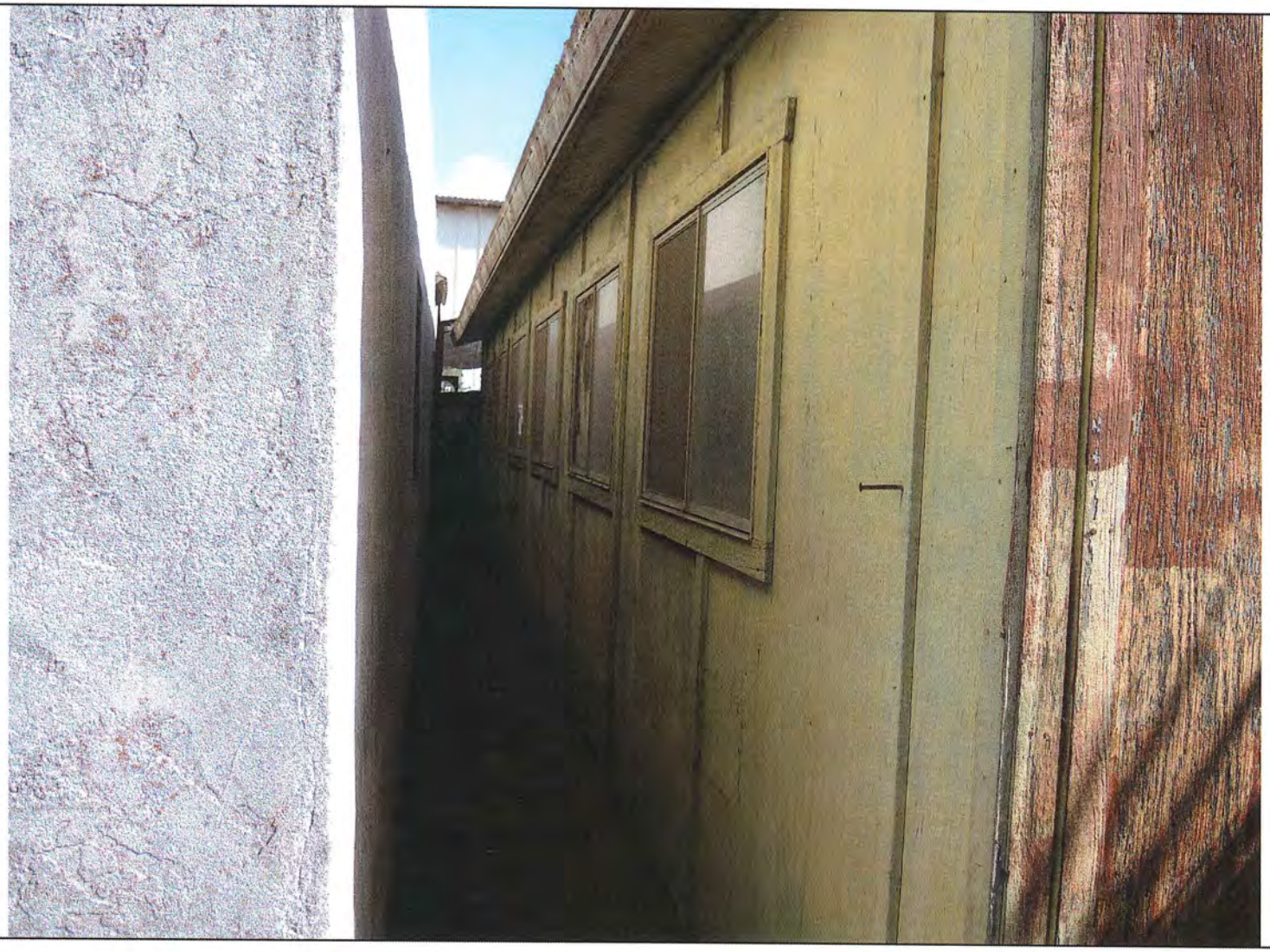


Plate 14

View of the North Façade of Office 2, Facing Southeast

2160 Cactus Road

Plate 15

View of the West Façade of Office 2 Showing the Original Office (Center) and the Apartment Building (Right), Facing East

2160 Cactus Road

Plate 16

View of the East Façade of Office 2 Showing the Original Office (Right) and the Apartment Building (Left), Facing West

2160 Cactus Road

Historic Context

Rural development of the Otay Mesa area began to occur in the late 19th century with approximately ten separate families living there in the 1870s. In the late 1880s, Otay Mesa was promoted as prime land for agriculture, despite the lack of irrigation. Under the Homestead Act of 1862, many farmers in this period homesteaded the vacant federal lands then located in Otay Mesa. Many of those that settled in Otay Mesa in the late 1800s were German immigrants who had originally settled in the mid-west.

In 1886, the Alta School District was established by the Otay Mesa community. A school was built approximately one mile west of Charles Piper's farm where Brown Field currently stands. In 1889, St. John's Lutheran Church was also constructed approximately one-half mile west of the school. By 1890, there was also a blacksmith shop, post office, and a store located to the south on J. Harvey McCarthy's farm.

Although the lack of irrigation was not as problematic in the late 19th century as currently experienced, due to higher than average rainfall and the success of wheat and barley crops, the early 1900s saw a decline in available water both for irrigation and household use. Residents of the area began to relocate, and with the agricultural depression of the 1920s and the Great Depression in the 1930s, many of the rural farmers in Otay Mesa were forced to sell their land. Some of the land was then leased and farmed by non-residents. By the 1940s, the staple crop in the area was garbanzo beans. Land unsuitable for bean farming was used to graze cattle or grow grains.

After World War II, the Otay Mesa area began to be used for commercial and industrial purposes, often removing those resources once associated with the early farming community. The Piper House, recorded in 1987, was one of the last buildings in Otay Mesa representative of the significance of the late 1800s homesteading. The building was demolished in 1987.

A 2008 survey of Otay Mesa conducted by HRB Staff concluded that "few built or above ground resources survive from the pre-1970 era…Though a few older buildings constructed in the 1950s and 1960s are scattered throughout the area, these buildings do not reflect a significant theme in Otay Mesa's history" (City of San Diego 2008; Page 20)

History of the Property: Ownership and Development

The chain of title for the 2160 Cactus Road property indicates that Henrietta (aka Etta) G. Littlepage (nee Deming) transferred the property to her son, real estate broker Edgar Littlepage (1930 Federal Census), in 1932. The sale, however, was not recorded until 1935. That same year, Edgar Littlepage sold the property to retired farmer John B. Kronebusch (1900 Federal Census) and his wife, Barbara.

The property was sold in 1939 to Wilma R. Anderson, however, the deed was again not recorded for several years. It was not until after John Kronebusch passed away (California Death Index 1940-1997) in 1942 that the deed was finally recorded in 1943.

The residential building record indicates that the single-family residence located at 2160

Cactus Road was built in 1944, while owned by Wilma Anderson. No original plans or notice of completion could be located for the property; as such it is currently unknown who constructed the building.

In 1946, the property was sold by Anderson to James L. and Dorothy M. Blalack. The Blalack family moved to California from Texas with their three sons in the 1940s. The family first owned a property in Mission Valley where they raised beef cattle, but later moved to the Otay Mesa property with their livestock where they raised crops on the mesa acreage to feed their cattle (Guerrero et al. 2005). The Blalacks remained in possession of the property until 1965, when Emerson M. Harris and Alfia M. Harris purchased the property.

The 2160 Cactus Road property was then sold to Jesus Martinez and Virginia Martinez in 1971. The property stayed in the Martinez family, shifting between family members until 2004, the last year the property is recorded in the chain of title.

Table 1

Title Records for 2160 Cactus Road

Seller	Buyer	Year
Etta Littlepage	E.G. Littlepage	1935
E.G. Littlepage	John B. Kronebusch and Barbara C. Kronebusch	1935
John B. Kronebusch	Wilma R. Anderson	1945
Wilma R. Anderson	J.L. Blalack and Dorothy M. Blalack	1946
J.L. Blalack, aka J.L. Blalack and Dorothy M. Blalack, aka Dorothy M. Blalack	Emerson M. Harris and Alfia M. Harris	1965
Emerson M. Harris and Alfia M. Harris	Jesus Martinez and Virginia C. Martinez	1971
Jesus Martinez, aka Jesus Martinez Cortez	Virginia C. Martinez	1984
Virginia C. Martinez	Virginia C. Martinez, Elena Martinez and Augustin Martinez, as Co-Trustees	1986
Virginia C. Martinez, Elena Martinez and Augustin Martinez, as Co-Trustees	Virginia C. Martinez	1988

Seller	Buyer	Year
Virginia C. Martinez	Ernesto Martinez and Carlota Martinez, 50% interest; and Augustin Martinez and Cristina Martinez, 50% interest	1988
Cristina Martinez	Augustin Martinez, Ernesto Martinez and Carlota Martinez	2000
Ernesto Martinez and Carlota Martinez	Augustin Martinez	2002
Augustin Martinez	Augustin Martinez, Trustee	2003; Re-Recorded 2004
Augustin Martinez, Augustin Martinez, Trustee, Ernesto Martinez and Carlota Martinez	Augustin Martinez, Trustee, 50% interest; and Ernesto and Carlota Martinez, 50% interest	2004
Cristina Martinez	Augustin Martinez, Trustee	2004
Ernesto Martinez and Carlota Martinez, 50% interest	Ernesto Martinez and Carlota Martinez, Trustees	2004

V. SIGNIFICANCE EVALUATIONS

When evaluating a historic resource, integrity is the authenticity of the resource's physical identity clearly indicated by the retention of characteristics that existed during its period of significance. It is important to note that integrity is not the same as condition. Integrity directly relates to the presence or absence of historic materials and character-defining features, while condition relates to the relative state of physical deterioration of the resource. In most instances, integrity is more relevant to the significance of a resource than condition; however, if a resource is in such poor condition that original materials and features may no longer be salvageable, then the resource's integrity may be adversely impacted. The seven aspects of integrity used in evaluating a historic resource are:

1. **Location** is the place where a resource was constructed or where an event occurred.

2. **Design** results from intentional decisions made during the conception and planning of a resource. Design includes form, plan, space, structure, and style of a property.

3. **Setting** applies to a physical environment, the character of a resource's location, and a

resource's relationship to the surrounding area.

4. **Materials** comprise the physical elements combined or deposited in a particular pattern or configuration to form a property.

5. **Workmanship** consists of the physical evidence of crafts employed by a particular culture, people, or artisan, which includes traditional, vernacular, and high styles.

6. **Feeling** relies upon present physical features of a property to convey and evoke an aesthetic or historic sense of past time and place.

7. **Association** directly links a property with a historic event, activity, or person of past time and place, and requires the presence of physical features to convey the property's character.

In order to assess each aspect of integrity when evaluating the 2160 Cactus Road buildings, the following steps were taken, as required in the City of San Diego *Guidelines for the Application of Historical Resources Board Designation Criteria*, Land Development Manual, Historical Resources Guidelines, Appendix E, Part 2, Adopted August 27, 2009:

1. ***Integrity of location*** *is the place where a resource was constructed or where an event occurred* (City of San Diego HRB 2009). Integrity of location was assessed by reviewing historical records and aerial photographs in order to determine if the buildings had always existed in their present location or if they had been moved, rebuilt, or their footprint significantly altered. The 2160 Cactus Road residence was constructed in 1944 and the cabin in 1950 in their current locations. In addition, no evidence could be found to indicate that the offices had been moved to the property from a different location. Aerial photographs and the current site plan with footprint delineated (see Appendix A) indicate that the buildings have not been moved or their locations otherwise impacted in any way. As such, the buildings retain integrity of location.

2. ***Integrity of design*** *results from intentional decisions made during the conception and planning of a resource. Design includes form, plan, space, structure, and style of a property* (City of San Diego HRB 2009). Integrity of design was assessed by evaluating the spatial arrangement of the buildings and any unique architectural features present. The single-family residence was designed in the Gable and Wing Roof Minimal Traditional architectural style with Ranch influences. The Gable and Wing Roof is a subtype of the Minimal Traditional style that exhibits a low-pitched

front facing gable added on one side of a side-gabled roof (McAlester 2013). The only potential modification made to the building since its original construction is the small bump-out on the north façade. However, because the bump-out is not documented as an addition and evidence of the use of newer materials could not be substantiated based on visual inspection, it is possible that the bump-out is original to the building. Regardless, the placement of the bump-out on a secondary façade, even if it is not original, did not impact the single-family residence's integrity of design.

The only change made to the cabin is the addition of a wood-framed screen door on the south façade. This modification did not impact the cabin's integrity of design.

Modifications made to Office 1 include the addition of an aluminum-framed casement window on the west façade and the construction of a wood-framed awning with a metal roof on the north façade. The construction of the awning, specifically, altered the building's form, plan, and space. As a result, Office 1 no longer retains integrity of design.

Office 2 has been modified extensively since it was originally constructed. Between 1981 and 1989 various corrugated metal awnings, an apartment building, and poured concrete structures with no windows were constructed surrounding Office 2. Corrugated metal walls were constructed onto the roof of Office 2 in order to enclose the interior space created by the corrugated metal roofing constructed around the building. Although Office 2 was not designed in any particular architectural style due to its intended use as purely a utilitarian farm office building, the structures that have been attached to the building have completely enveloped it, thereby negatively impacting the building's overall form, plan, space and structure. Office 2, therefore, no longer retains integrity of design.

The single-family residence and cabin both retain integrity of design. Due to the modifications made to the office buildings, they no longer retains integrity of design.

3. ***Integrity of setting*** *applies to a physical environment, the character of a resource's location, and a resource's relationship to the surrounding area* (City of San Diego HRB 2009). Integrity of setting was assessed by inspecting the elements of the property, which include topographic features, open space, views, landscapes, vegetation, man-made features, and relationships between buildings and other features. The 2160 Cactus Road property is located southwest of the intersection of Cactus Road and Airway Drive, south of Brown Field. When constructed, the single-family residence and cabin were located in an agricultural setting with only one other structure,

a barn. By 1953, another single-family residence was constructed southeast of the 2160 Cactus Road property on the west side of Cactus Road. By 1964, another residence and various outbuildings were constructed to the southeast of the 2160 Cactus Road property, on the east side of Cactus Road. By 1971, the offices were constructed on the 2160 Cactus Road property, negatively impacting the original small farm setting that the property originally possessed. By 1989, the original barn had been removed and various structures made of corrugated metal, re-purposed wood, and poured concrete were constructed throughout the property in the vicinity of the offices. All of the development of the surrounding parcels, as well as the construction and removal of the various structures on the property between 1971 and 1989, negatively impacted the integrity of setting for the single-family residence, the cabin, Office 1, and Office 2. Therefore, the buildings located at 2160 Cactus Road do not retain integrity of setting.

4. ***Integrity of materials*** *comprise[s] the physical elements combined or deposited in a particular pattern or configuration to form a property* (City of San Diego HRB 2009). Integrity of materials was assessed by determining the presence or absence of original building materials, as well as the possible introduction of materials, which may have altered the architectural design of the buildings. The only new materials introduced to the single-family residence include the ceramic tile at the secondary entrance on the south façade and possibly the decorative metal support on the front porch. Neither of these modifications have impacted the building's integrity of materials and all original materials appear to be intact. Therefore, the single-family residence retains integrity of materials.

   The only new material added to the cabin is the wood-framed screen door on the east façade. This modification has not impacted the building's integrity of materials and all original materials appear to be intact. Therefore, the laundry outbuilding retains integrity of materials.

   Office 1 has only undergone minimal modifications since it was constructed. The modifications consist of one new window and a wood-framed awning with a corrugated metal roof. The window, an aluminum-framed multi-pane casement window, was installed on the west façade of the building at an unknown date. In order to place the window, a hole was cut into the wall of the building. The awning was constructed between 1981 and 1989 and covers the entire north façade. Both modifications introduced new materials to the original building and modified or otherwise masked the original materials. Office 1, therefore, does not retain integrity of materials.

   Office 2 has been modified extensively since it was originally constructed. Between

1981 and 1989 various corrugated metal awnings, an apartment building, and poured concrete structures with no windows were constructed surrounding Office 2. Corrugated metal walls were also constructed onto the roof of Office 2 in order to enclose the interior space created by the corrugated metal roofing constructed around the building. Although Office 2 was not designed in any particular architectural style due to its intended use as purely a utilitarian farm office building, the structures that have been attached to the building have completely enveloped it, thereby negatively impacting the building's overall design. Office 2, therefore, no longer retains integrity of materials.

5. ***Integrity of workmanship*** *consists of the physical evidence of crafts employed by a particular culture, people or artisan, which includes traditional, vernacular, and high styles* (City of San Diego HRB 2009). Integrity of workmanship was assessed by evaluating the quality of the architectural features present in the buildings. The design and execution of construction for the single-family residence and the cabin are average representations of the characteristics expected for rural residential buildings. Because neither structure has been substantially modified since its original construction, both buildings retain integrity of workmanship.

   The construction of the metal-roofed awnings and other modifications made to Offices 1 and 2 are of lower quality workmanship than both original structures. Although Offices 1 and 2 were both constructed using inexpensive materials in an expedient fashion, they are both solid structures. The modifications made to both structures after they were initially constructed were done in a haphazard manner and required very little skill. None of the modifications made to Offices 1 or 2 were constructed by professional craftsmen and therefore, neither building retains integrity of workmanship.

6. ***Integrity of feeling*** *relies on present physical features of a property to convey and evoke an aesthetic or historic sense of past time and place* (City of San Diego HRB 2009). Integrity of feeling was assessed by evaluating whether or not the resource's features, in combination with its setting, convey an aesthetic sense of the buildings around the time they were constructed. The 2160 Cactus Road property is in a state of advanced deterioration due to lack of maintenance. Much of the wood trim of the single-family residence and the cabin, as well as the boards used to construct Offices 1 and 2, have begun to crack and exhibits signs of termite damage and dry rot. The extensive modifications to the property between 1981 and 1989, which consisted of removal of the original barn, construction of several wood-framed, metal roofed structures, and construction of several poured concrete structures, has altered the

overall feeling of the once rural farm property. The property no longer represents a rural residential farm property and instead resembles a shanty-town consisting of mismatched walls and roofs made of repurposed materials that do not create fully enclosed structures. Therefore, the property does not retain integrity of feeling.

7. ***Integrity of association*** *directly links a historic property with a historic event, activity, or person of past time and place; and requires the presence of physical features to convey the property's historic character* (City of San Diego HRB 2009). Integrity of association was assessed by evaluating whether the buildings were ever directly associated with important events or individuals. Historic research revealed that no important events or individuals are directly associated with the 2160 Cactus Road property. None of the individuals that constructed, resided in, or owned the property were found to be significant, nor could the property be associated with any important events. Therefore, the property does not possess integrity of association.

City of San Diego HRB Eligibility Criteria

Because this project requires approval from the City of San Diego, CEQA and City of San Diego HRB eligibility criteria were used for this evaluation. Therefore, criteria for listing on the SDRHR, the CRHR, and the NRHP were used to measure the significance of the resource. A historic resource must be significant at the local, state, or national level, under one or more of the following criteria in order to be eligible for designation on the SDRHR:

- **City of San Diego HRB Criterion A:**
  It exemplifies or reflects special elements of the city's, a community's, or a neighborhood's historical, archaeological, cultural, social, economic, political, aesthetic, engineering, landscaping, or architectural development;

- **City of San Diego HRB Criterion B:**
  It is identified with persons or events significant in local, state, or national history;

- **City of San Diego HRB Criterion C:**
  It embodies distinctive characteristics of a style, type, period, or method of construction, or is a valuable example of the use of indigenous materials or craftsmanship;

- **City of San Diego HRB Criterion D:**
  It is representative of the notable work of a master builder, designer, architect, engineer, landscape architect, interior designer, artist, or craftsman;

- **City of San Diego HRB Criterion E:**
  It is listed or has been determined eligible by the National Park Service for listing on the NRHP, or is listed or has been determined eligible by the State Historic Preservation Office for listing on the State (California) Register of Historical Resources; or

- **City of San Diego HRB Criterion F:**
  It is a finite group of resources related to one another in a clearly distinguishable way or is a geographically definable area or neighborhood containing improvements, which have a special character, historical interest, or aesthetic value, or which represent one or more architectural period or styles in the history and development of the city.

City of San Diego HRB Evaluation

- **City of San Diego HRB Criterion A:**
  The key distinction provided by the City in HRB Criterion A is that in order for structures or built candidates to be considered as historically significant they must be characterized as exemplifying or reflecting "special elements" of development. The *Guidelines for the Application of Historical Resources Board Designation Criteria* states that:

  > Special elements of development refer to a resource that is distinct among others of its kind or that *surpass the usual in significance*. It is not enough for a resource to simply reflect an aspect of development, as all buildings, structures, and objects do. (italics added)

  Consideration for designation is, therefore, established based upon whether or not the building exemplifies or reflects special elements of the types of development listed under Criterion A. For the evaluation of the property under HRB Criterion A, the following aspects of development were considered.

  - **Historical Development:** *Historical development shall exemplify or reflect a special or unique aspect of the city's general historical development; or shall exemplify or reflect a unique aspect of the city's histor*y (City of San Diego HRB 2009). The first structure on the 2160 Cactus Road property was built in 1944, well after the "Homesteads and Agriculture" period of the late 1800s and early 1900s, as identified in the Otay Mesa Community Plan Update historical context. The buildings are also not associated with the Aviation and Military period or the Annexation period. Therefore, the property is not significant with respect to any form of historical development.

- **Archaeological Development:** *Archaeological development may be prehistoric or historic in nature but must exemplify archaeological development through subsurface deposits and may include associated surface features* (City of San Diego HRB 2009). No archaeological sites are associated with the 2160 Cactus Road property. The property is, therefore, not significant with respect to any form of archaeological development.

- **Cultural/Social Development:** *Cultural development shall exemplify or reflect development that is associated with a group of people linked together by shared values, beliefs, and historical associations, or are properties associated with significant achievement in the visual and fine arts (painting, sculpture, architecture, theater, dance, music), literature, philosophy, religion, science, mathematics, the social studies, or any of the disciplines that are commonly associated with public and private institutions of higher learning and/or academic inquiry. Social development shall exemplify or reflect development that is associated with relations and interactions with others* (City of San Diego HRB 2009). Historic research conducted for the 2160 Cactus Road property did not reveal any persons or events associated with cultural or social development within the local area or the region. The building is, therefore, not significant with respect to any form of cultural or social development.

- **Economic Development:** *Economic development shall exemplify or reflect development associated with the local, regional, state or national economy or economics, including manufacturing, labor and agriculture, maritime and transportation industries* (City of San Diego HRB 2009). The 2160 Cactus Road property is not associated with any patterns of economic development reflecting local or regional economic patterns or industries. The property is, therefore, not significant with respect to any form of economic development.

- **Political Development:** *Political development shall exemplify or reflect development associated with politics or the political atmosphere, including women's suffrage, neighborhood activism, labor organizations and the Civil Rights Movement associated with ethnic and gay/lesbian issues* (City of San Diego HRB 2009). The 2160 Cactus Road property is not associated with any political movements or individuals associated with politics. The property is, therefore, not significant with respect to any form of political development.

- **Aesthetic Development:** *Aesthetic development shall exemplify or reflect development associated with an artistic arrangement in theory or practice* (City

of San Diego HRB 2009). The 2160 Cactus Road property is not associated with any aesthetic pattern or arrangement that reflects any noteworthy design elements. The property is, therefore, not significant with respect to any form of aesthetic development.

- **Engineering Development:** *Engineering development shall exemplify or reflect development associated with engineering* (City of San Diego HRB 2009). The engineering design of the buildings located at 2160 Cactus Road is not associated with any unusual or unique engineering design or development. The property is, therefore, not significant with respect to any form of engineering development.

- **Landscape Development:** *Landscape development shall exemplify or reflect development associated with garden and park design, subdivision design, or ecosystem/habitat restoration and may include professionally applied standards or design ingenuity within landscape disciplines* (City of San Diego HRB 2009). The 2160 Cactus Road property did not incorporate any known landscape improvements when built in 1944 and none of the vegetation currently on the property appears to be associated with the period of construction. The property is, therefore, not significant with respect to any form of landscape development.

- **Architectural Development:** *Architectural development shall exemplify or reflect development associated with the city's built environment, especially that designed and constructed by non-architects, including real estate developers, contractors, speculators, homeowners and others associated with the building industry* (City of San Diego HRB 2009). The Minimal Traditional style with Ranch influences of the single-family residence at 2160 Cactus Road was popular in San Diego between circa 1935 and 1950; however, while it serves as a typical example of the Minimal Traditional style with elongated wings reminiscent of the Ranch style, it does not serve as a model or precedent of architectural development for either style specifically, for single-family residential construction within the immediate area, or within the Otay Mesa area as a whole. The building is, therefore, not significant with respect to any form of architectural development.

- **City of San Diego HRB Criterion B:**
  Historic research revealed that the 2160 Cactus Road property is not associated with any historic persons or events significant in local, state, or national history. None of

the individuals who owned the property during the period of construction and none of the later residents of the home were determined to be significant in local, state, or national history. The 2160 Cactus Road residence was constructed in 1944 by an unknown builder.

Furthermore, no historically significant events could be found to have been associated with the property. Therefore, the 2160 Cactus Road property cannot be considered significant under City of San Diego HRB Criterion B.

- **City of San Diego HRB Criterion C:**
  According to the HRB designation guidelines, this criterion applies to resources significant for their physical design or method of construction. To embody the distinctive characteristics of a style, type, period, or method of construction refers to the way in which a property was conceived, designed, or fabricated by an individual, a group of people, or a culture. Distinctive characteristics are those physical features or traits that commonly recur in individual styles, types, periods, or methods of construction.

  In order to qualify under this criterion, a resource must embody distinctive characteristics of an architectural style, a type of construction, a recognized construction period, or an identifiable method of construction, as established through accepted bodies of scholarly and professional work. Comparison to other resources of the same style, type, period, or method of construction is not required unless scholarly work has not been done on a particular property type or unless surviving examples of a property type are extremely rare.

  It is important to note that Criterion C states that a resource "must embody the distinctive characteristics of a style, type, period, or method of construction"; it does *not* state that the resource must be a unique or distinguished example of a style, type, period, or method of construction. Resources that do not embody the distinctive characteristics of a style, type, period, or method of construction, as supported by established sources, do not qualify.

  The single-family residence at 2160 Cactus Road exhibits features of both the Minimal Traditional and Ranch styles. Buildings designed in the Minimal Traditional style were intended to be affordable for the working-class family during the Depression and War years. They generally gain their significance "in a district context, either within a largely or exclusively Minimal Traditional tract, or as representations of later development in an earlier subdivision…it is not anticipated that many examples of

Minimal Traditional architecture will be eligible for individual listing under local designation criteria" (City of San Diego 2007). The single-family residence at 2160 Cactus Road possesses one out of four Primary character-defining features, and two out of the four Secondary character-defining features of the Minimal Traditional Style, as underlined by the San Diego Modernism Historic Context Statement (Modernism Context Statement) discussed below.

In October of 2007, the City of San Diego developed and implemented the Modernism Context Statement. The stated purpose of the Modernism Context Statement is to "assist in the identification, evaluation and preservation of significant historic buildings, districts, sites, and structures associated with the Modernism movement in San Diego from 1935 to 1970" and was created to better understand "Modern era resources and the types of resources that are significant to the history and development of San Diego." The City of San Diego utilizes the Modernism Context Statement in conjunction with the evaluation of potential historic resources constructed within the Modern era from 1935 to 1970.

- *General Characteristics of the Minimal Traditional Style:* The single-family residence located at 2160 Cactus Road was designed and constructed as a Minimal Traditional-style, single-family residence with Ranch style influences in 1944. According to the Modernism Context Statement, the Minimal Traditional style is reflected in the "simplified no-frills interpretation of previous architectural styles that emerged in direct response to the Great Depression." In addition, McAlester (2013) identifies the characteristics of Minimal Traditional style buildings as: "Low- or intermediate-pitched roof, more often gabled; small house, generally one-story in height; roof eaves usually have little or no overhang; double-hung windows, typically multi-pane or 1/1; minimal amounts of added architectural detail; rarely has dormers."

    - ***Primary Character-Defining Features of the Minimal Traditional Style:*** According to the Modernism Context Statement, there are four "Primary" character-defining features of Minimal Traditional construction. The following Primary character-defining features noted in the Modernism Context Statement have been specifically applied to the property.

        1. *Compact size, usually single story.* The single-family residence at 2160 Cactus Road exhibits an "L" shaped footprint with a wide front porch. Therefore, the building does not possess this

Primary character-defining feature of Minimal Traditional construction.

2. *Low-pitch gabled or hipped roofs with shallow overhangs.* The single-family residence at 2160 Cactus Road possesses a low-pitched gabled roof with a moderate overhang. Therefore, the building does possess this Primary character-defining feature of Minimal Traditional construction.

3. *Simplified details of limited extent, reflecting traditional or moderne themes.* The single-family residence at 2160 Cactus Road exhibits simplified details, however, these details more accurately represents the Ranch (front porch supports) or Spanish-revival styles (shed roof with tile accents), which are not defined in the Modernism Context Statement as traditional or modern styles. Therefore, the building does not possess this Primary character-defining feature of Minimal Traditional construction.

4. *Traditional building materials (wood siding, stucco, brick, and stone) emphasizing the street façade.* The single-family residence at 2160 Cactus Road exhibits a stucco exterior finish, however, the building does not emphasize the street façade.

As can be seen above, the single-family residence at 2160 Cactus Road possesses one of the four Primary character-defining features of Minimal Traditional construction expressed in the Modernism Context Statement.

- ***Secondary Character-Defining Features of the Minimal Traditional Style:*** According to the Modernism Context Statement, there are four "Secondary" character-defining features of Minimal Traditional construction applicable to residential buildings. The following Secondary character-defining features noted in the Modernism Context Statement have been specifically applied to the property.

  1. *Simple floor plan with minimal corners.* The single-family residence at 2160 Cactus Road possesses a simple "L"-shape footprint with horizontal massing and therefore minimal corners. The single-family residence at 2160 Cactus Road does possess

this Secondary character-defining feature of Minimal Traditional construction.

2. *Small front porches.* The single-family residence at 2160 Cactus Road possesses a wide front porch that extends the length of the east/west wing. Therefore, the building does not possess this Secondary character-defining feature of Minimal Traditional construction.

3. *Modestly sized wood framed windows, occasionally one large picture window.* The single-family residence at 2160 Cactus Road possesses modestly-sized wood-framed windows. The grouping of three double-hung windows on the east façade mimics a large picture window. Therefore, the building does possess this Secondary character-defining feature of Minimal Traditional construction.

4. *Detached or attached front-facing garage, frequently set back from the house.* The single-family residence at 2160 Cactus Road does not possess a garage of any kind. Therefore, the building does not possess this Secondary character-defining feature of Minimal Traditional construction.

The single-family residence at 2160 Cactus Road possesses two out of the four Secondary character-defining features of Minimal Traditional construction expressed in the Modernism Context Statement.

The single-family residence at 2160 Cactus Road exhibits a low-pitched gabled roof with a moderate overhang, a simple floor plan with minimal corners, and modestly-sized wood-framed windows. However, the building is not compact in size, does not exhibit simplified details reflecting traditional or moderne themes, does not emphasize the street façade, does not have a small front porch, and does not possess a garage of any kind.

Because the two classifications for the Ranch style presented in the Modernism Context Statement are for Tract and Custom Ranch styles, which the single-family residence at 2160 Cactus Road is neither, character defining features from McAlester were used in the evaluation. Originating in the mid-1930s in southern California, the Ranch style began to gain popularity in the 1940s with the lifting of financial controls that had

previously mandated very small houses (McAlester 2013). The single-family residence at 2160 Cactus Road possesses five out of the eight character-defining features of the Ranch style.

- *General Characteristics of the Ranch Style:* The single-family residence located at 2160 Cactus Road was designed and constructed as a Minimal Traditional-style, single-family residence with Ranch style influences in 1944. According to McAlester (2013), the Ranch style was popular between 1935 and 1975, the style of which is is generally represented by a single-story residence with wide, rambling floor plan and a wide eave overhang. A sub-type of the Ranch style, termed the Ranchette or Minimal Ranch, is an early, small example of the Ranch style that generally lacks the broad overhang of later examples and the common elaborations seen on larger Ranch-style buildings. McAlester notes that "the line between Minimal Traditional and Ranchette is a matter of judgement. However, the intent was likely a Ranch house if a picture window and other Ranch elaboration is present (such as a corner window or wall cladding that differs at the base of the windows" (McAlester 2013). Significance for the Tract Ranch style, as posited by the Modernism Context Statement, would be gained through a district context or as a representation of later development in an earlier subdivision. Like the Minimal Traditional style, "although it is not anticipated that many examples of Tract Ranch architecture will be eligible for individual listing under local designation criteria, it may be possible for some unique or distinguished examples of the style to be found significant as individual resources" (City of San Diego 2007). The same is true for the Custom Ranch style, which should retain character defining features historically present on the resource such as "ranch style landscape features", "contemporary styling, modern amenities, and sprawling floorplans" (City of San Diego 2007).

    - ***Character-Defining Features of the Ranch Style:*** According to McAlester, there are eight character-defining features of Ranch construction. The following character-defining features noted in McAlester have been specifically applied to the property.

        1. *Broad one-story shape.* The single-family residence at 2160 Cactus Road is one-story and exhibits a wide "L" shaped footprint with a wide front porch. Therefore, the building does possess this character-defining feature of Ranch construction.

2. *Usually built low to ground.* The single-family residence at 2160 Cactus Road possesses a low, wide, footprint. Therefore, the building does possess this character-defining feature of Ranch construction.

3. *Low-pitched roof without dormers.* The single-family residence at 2160 Cactus Road exhibits a low-pitched roof with no dormers. Therefore, the building does possess this character-defining feature of Ranch construction.

4. *Commonly with moderate-to-wide roof overhang.* The single-family residence at 2160 Cactus Road exhibits a moderate roof overhang. Therefore, the building does possess this character-defining feature of Ranch construction.

5. *Front entry usually located off-center and sheltered under main roof of house.* The front entry of the single-family residence at 2160 Cactus Road is located in the center of the east/west wing. Therefore, the building does not possess this character-defining feature of Ranch construction.

6. *Garage typically attached to main façade (faces front, side, or rear).* The single-family residence at 2160 Cactus Road does not possess a garage of any kind. Therefore, the building does not possess this character-defining feature.

7. *Large picture window generally present.* The single-family residence at 2160 Cactus Road does not possess a large picture window. Instead, it has a grouping of three 1/1 double-hung windows on the west façade. While these windows create a similar effect, there is no true picture window present. Therefore, the building does not possess this character-defining feature.

8. *Asymmetrical façade.* The single-family residence at 2160 Cactus Road exhibits an asymmetrical façade. Therefore, the building does possess this character-defining feature.

As can be seen above, the single-family residence at 2160 Cactus Road possesses five of the eight character-defining features of Ranch

construction as expressed in McAlester (2013).

Although the building is considered to be Minimal Traditional in style with Ranch influences, it is not a unique or distinguished example of either style, nor is it associated with any sort of district, tract, or later form of development. The building is also not associated with any recognized architects or builders. Therefore, the building cannot be considered a representative example of a distinct style, type, period, or method of construction. As a result, the single-family residence at 2160 Cactus Road is not considered eligible for designation under City of San Diego HRB Criterion C.

In addition, because the cabin is an ancillary structure constructed to accompany the single-family residence, and the two office buildings were not designed in any specific architectural style, none of the buildings on the 2160 Cactus Road property are considered eligible for designation under City of San Diego HRB Criterion C.

- **City of San Diego HRB Criterion D:**
  The buildings located at 2160 Cactus Road were designed and built by an unknown architect and builder. Therefore, the building cannot be considered significant under City of San Diego HRB Criterion D.

- **City of San Diego HRB Criterion E:**
  The buildings located at 2160 Cactus Road are not listed on the CRHR or the NRHP, nor has the property been formally determined eligible for either register. Therefore, the property does not qualify for designation under City of San Diego HRB Criterion E.

- **City of San Diego HRB Criterion F:**
  No historic district presently exists for the Otay Mesa community. In addition, the buildings located at 2160 Cactus Road were constructed on the property in different phases (1940s and 1970s) several decades apart and do not represent a unified rural farming complex. In addition, the area surrounding 2160 Cactus Road does not illustrate any progressive changes in real estate development, planning practices, or cultural taste. Therefore, the property does not qualify for designation under City of San Diego HRB Criterion F.

CRHR/NRHP Criteria

In order for a historic resource to be considered eligible for listing on the CRHR or the NRHP, it must be determined significant at the local, state, or national level, under one or more of the following criteria:

- **CRHR Criterion 1/NRHP Criterion A:**
  It is associated with events that have made a significant contribution to the broad patterns of history and cultural heritage.

- **CRHR Criterion 2/NRHP Criterion B:**
  It is associated with the lives of persons important in our past.

- **CRHR Criterion 3/NRHP Criterion C:**
  It embodies the distinctive characteristics of a type, period, region, or method of construction; represents the work of an important creative individual; or possesses high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

- **CRHR Criterion 4/NRHP Criterion D:**
  It has yielded, or may be likely to yield, information important in prehistory or history.

Resources significant under any of the above-named criteria must also possess integrity of location, design, setting, materials, workmanship, feeling, and association to be considered eligible for listing on the NRHP.

CRHR/NRHP Evaluation

- **CRHR Criterion 1/NRHP Criterion A:**
  It was discovered through historic research that no significant events are associated with the property. Because the property could not be associated with any specific historic event, the buildings located at 2160 Cactus Road do not qualify for the CRHR under Criterion 1 or the NRHP under Criterion A.

- **CRHR Criterion 2/NRHP Criterion B:**
  Research has confirmed that no historically significant persons could be associated with the 2160 Cactus Road buildings. None of the individuals who owned the property during the period of construction and none of the later residents of the home were determined to be significant in local, state, or national history. The 2160 Cactus Road residence was constructed in 1944 by an unknown builder.

  Because the property could not be associated with any historically important persons, the buildings do not qualify for the CRHR under Criterion 2 or the NRHP under Criterion B.

- **CRHR Criterion 3/NRHP Criterion C:**
  In order to evaluate the buildings located at 2160 Cactus Road under CRHR Criterion 3/NRHP Criterion C, BFSA based the review upon the recommended criteria listed in the *National Register Bulletin: How to Apply the National Register Criteria for Evaluation* (Andrus and Shrimpton 2002). This review is based upon the evaluation of the integrity of the building followed by the assessment of distinctive characteristics. The single-family residence and cabin located at 2160 Cactus Road were determined to retain four of the seven aspects of integrity considered when evaluating historic resources (location, design, materials, and workmanship). The two offices only retain integrity of location. The modifications made to the property since the construction of the buildings have compromised integrity of feeling and setting for all structures, and the changes made to the offices have compromised their integrity of design, materials, and workmanship. In addition, the property does not, nor did it ever, possess integrity of association due to the lack of a link to any historically significant persons or events. The buildings do not represent the work of an important creative individual, nor do they possess high artistic values. In addition, the buildings do not embody the distinctive characteristics of a type, period, and method of construction. Therefore, the property is not considered eligible for designation under CRHR Criterion 3 or NRHP Criterion C.

- **CRHR Criterion 4/NRHP Criterion D:**
  It is unlikely that the buildings located at 2160 Cactus Road, as they presently exist, could contribute additional information beyond that which is presented in this report, which could be considered important to the history of the local area or the state, or would be of any scientific value. The buildings could not be associated with any specific significant events or persons, and therefore, further research would not provide any additional information pertinent to the history of the city of San Diego or the state of California. Therefore, the property does not qualify for the CRHR under Criterion 4 or the NRHP under Criterion D.

VI. FINDINGS AND CONCLUSIONS

The assessment of the buildings located at 2160 Cactus Road has concluded that since the property has been substantially altered since the buildings' date of construction and no longer retains its original aspects of integrity, the buildings are evaluated as not historically significant. The property as a whole, and none of the individual buildings, are eligible for listing on the SDRHR, the CRHR, or the NRHP under any designation criteria. Although the single-family residence can be classified as belonging to the Minimal Traditional with Ranch-style influences, it no longer retains its original integrity. The building is considered to be a common example of

the Minimal Traditional style with Ranch influences and is not an exemplary reflection of any form of historical, archaeological, cultural, economic, political, aesthetic, landscape, or architectural development. In addition, no historically significant individuals could be associated with the property. Because the property is not considered eligible under City of San Diego HRB, CRHR, or NRHP criteria, any future development of the property will not pose a negative impact to the history or the overall character of the surrounding neighborhood. Because the residential building is not considered eligible for listing on the SDRHR, the CRHR, or the NRHP, any future development of the property will not have an adverse effect on the built environment and no mitigation measures are recommended.

Impacts Discussion

Because the property is evaluated as not eligible for listing on the SDRHR, the CRHR, or the NRHP due to a lack of integrity or association with any significant persons or events, any future development of the property will not pose a negative impact on the built environment or negatively impact the history or overall character of the surrounding neighborhood. Therefore, no additional mitigation measures are required.

VII. BIBLIOGRAPHY

Andrus, Patrick and Rebecca H. Shrimpton
2002 How to Apply the National Register Criteria for Evaluation. *National Register Bulletin* No. 15. National Register of Historic Places.

Bancroft, Hubert Howe
1886 *History of California*, Volume V; 1846-1848. The History Company, San Francisco, California.

Beauchamp, R. Mitchel
1986 *A Flora of San Diego County, California*. Sweetwater River Press, National City, California.

Biehler, Shawn
1979 *Bouguer Gravity Map of California*: San Diego–El Centro Sheet. California Division of Mines and Geology, Sacramento, California.

Blick, James D.
1976 Agriculture in San Diego County. In *San Diego – An Introduction to the* Area, edited by Philip J. Pryde, pp. 121-135. Kendall/Hunt Publishing Company, Dubuque, Iowa.

Brian F. Smith and Associates, Inc.
Various dates. Research library holdings including Sanborn maps, city directories, published regional histories, aerial photographs, and geologic and paleontological references.

Carrico, Richard L. and Clifford V.F. Taylor
1983 Excavation of a Portion of Ystagua: A Coastal Valley Ipai Settlement. Environmental Impact Report on file at the City of San Diego, Environmental Quality Division.

Carrico, Richard L., Theodore Cooley, and Andrew Pigniolo
1992 Draft Final Cultural Resources Evaluation of the 23,088-acre Otay Ranch. Unpublished report on file at the South Coastal Information Center at San Diego State University, San Diego, California.

Caughey, John W.
1970 *California: A Remarkable State's Life History.* Third Edition. Prentice-Hall, Englewood Cliffs, New Jersey.

Chapman, Charles E.
1925 *A History of California: The Spanish Period*. The Macmillan Company, New York.

City of San Diego
Various dates. City ordinances. San Diego City Clerk.

2007 San Diego Modernism Historic Context Statement. Submitted to the State of California Office of Historic Preservation.

2008 Otay Mesa Community Plan Update, Historic Context Statement and Historic Resource Survey.

2009 Historical Resources Board, Guidelines for the Application of Historical Resources Board Designation Criteria, Land Development Manual, Historical Resources Guidelines.

Crouch, Herbert
1915 Reminiscences, 1868-1915. Unpublished manuscript on file, California Room, San Diego Public Library.

Elliott, Wallace W.
1965 *History of San Bernardino and San Diego Counties with Illustrations.* Riverside Museum Press, Riverside, California. Originally published 1883, W.W. Elliott, San Francisco, California.

Engelhardt, Zephyrin
1920 *San Diego Mission*. James M. Barry Company, San Francisco, California.

Gordinier, Jerry G.
1966 *Problems of Settlement in the San Diego Foothills.* Unpublished Master's thesis, San Diego State College, San Diego.

Heiges, Harvey
1976 The Economic Base of San Diego County. In *San Diego – An Introduction to the Region*, edited by Philip R. Pryde, pp. 137-148. Kendall/Hunt Publishing Company, Dubuque, Iowa.

McAlester, Virginia Savage
2013 *A Field Guide to American Houses (Revised): The Definitive Guide to Identifying and Understanding America's Domestic Architecture.* Alfred A. Knopf, New York.

Moyer, Cecil C.
1969 *Historic Ranchos of San Diego*. Edited by Richard F. Pourade. Union-Tribune Publishing Company, San Diego.

Palou, Fray Francisco
1926 *Historical Memoirs of New California.* Edited by Herbert Eugene Bolton (four volumes). University of California Press, Berkeley.

Pitt, Leonard
1966 *The Decline of the Californios: A Social History of the Spanish-speaking Californians, 1846-1890.* University of California Press, Los Angeles.

Pourade, Richard F.
1967 *The Rising Tide: Southern California in the Twenties and Thirties*. The History of San Diego Volume 6. Union-Tribune Publishing Company, San Diego.

Price, Glenn W.
1967 *Origins of the War with Mexico: The Polk-Stockton Intrigue*. University of Texas Press, Austin.

Robinson, William Wilcox
1948 *Land in California: The Story of Mission Lands, Ranchos, Squatters, Mining Claims, Railroad Grants, Land Scrip, Homesteads*. University of California Press, Berkeley.

Rolle, Andrew F.
1969 *California: A History* (Second Edition). Thomas Y. Crowell Company, New York.

Sanborn Map Company
Various dates

San Diego County Recorder
Various dates. Various official records.

San Diego Public Library
Various dates. City directories, Sanborn maps, and various genealogical records.

San Diego Historical Society
Various dates. Various records, receipts, and maps.

San Diego Union
1868 San Diego history. 6 February. San Diego, California.

1870 San Diego history. 10 November. San Diego, California.

1872 San Diego history. 2 January. San Diego, California.

Shipek, Florence
1977 *A Strategy for Change: The Luiseño of Southern California.* Unpublished Ph.D. dissertation on file at the University of Hawaii.

Van Dyke, Theodore S.
1886 *Southern California: its Valleys, Hills, and Streams; its Animals, Birds, and Fishes; its Gardens, Farms, and Climate*. Fords, Howard, and Hulbert. New York.

VIII. APPENDICES

Appendix A: Building Development Information
Appendix B: Ownership and Occupant Information
Appendix C: Maps
Appendix D: DPR Forms
Appendix E: Preparers' Qualifications

APPENDIX A

Building Development Information

-County Assessor's Building Record
-Notice of Completion (None)
-Water/Sewer Connection Records (None)
-Construction Permits (None)
-Site Plan With Footprint
-Lot and Block Book Page (None)
-Previous Historical Resource Survey Forms (None)

COUNTY ASSESSOR
SAN DIEGO CO. CALIFORNIA

RESIDENTIAL BUILDING RECORD

SHEET 1 OF 2 SHEETS

PARCEL 646-180-20

6461002000

ADDRESS 1060 CACTUS RD.

DESCRIPTION OF BUILDING

CLASS & SHAPE: D 4.0 + 2

ARCHITECTURE: X Standard; Above-Standard; Special

Stories

TYPE

Use	Design
X Single	X
Double	
Duplex	
Apartment	
Flat-Court	
Motel	

Units

CONSTRUCTION: Light; Sub-Standard

FOUNDATION: X Concrete; Reinforced; Brick; Wood; Piers; Light / Heavy

STRUCTURAL: X Frame; "x" "-"; Sheathing; Concrete Block; B.&B. / T.&G.; Brick; Adobe; Floor Joist: 1st: "x" "-"; 2nd: "x" "-"; Sub-Floor; Concrete Floor; Insulated Ceilings; Insulated Walls

EXTERIOR: X Stucco on; Siding "x"; Shingle; Shake; B.&B. / T.&G.; Brick; Stone; Metal Sash; Screens

WINDOWS: X D.H. / Casement

ROOF: Flat / Pitch; X Gable 1/4 M; Hip 1/4; Shed 1/4; Cut Up; Dormers; Roof. "x" "-"; Gutters; Shingle; Shake; Tile; X Tile Trim; Compo.; X Compo. Shingle

LIGHTING: X Wiring; K.T. / Conduit; B.X. / Cable

Fixtures: Few / Cheap; X Avg. / X Med.; Many / Special

PLUMBING: Poor / X Std. / Spec.

X Sink; X Laundry; X Water Htr.-Auto.; Water-Softner

AIR CONDITION: X Heating / Cooling; Forced / Clean'g; Gravity / Humid.; X Wall Unit; Floor Unit; Zone Unit; Central; Oil Burner; M-B.T.U.; Fireplace

ROOM AND FINISH DETAIL

ROOMS	FLOORS B	1	2	FLOOR FINISH Material	Grade	TRIM	INTERIOR FINISH Walls	Ceilings
All		X		Hwd	A	P	Ply wood	Ply wood
Ent. Hall								
Living		1						
Dining		1						
Bed		1						
Bed								
Kitchen		1		Lino				

Drain Bd. Material: Lino Lgth: 81 Ft. Splash:

BR

0413

CONSTRUCTION RECORD

Permit No.	For	Amount	Date	EFFEC. YEAR	APPR. YEAR	NORMAL % GOOD Age	Remain'g Life	Table	%	RATING (E,G,A,F,P) Cond.	Arch. Attr.	Func. Plan	Con-form	Storage Space Cupb'd	Closet	Work-m'nshp
	RES		1944	1944	1961	14	41	R55	82	A	A	A	A	A	A	A
					1965	21	40	R60	81	A-	A	E	A	E	E	E
					1970	26	35	R60	71	A+						

BATH DETAIL

Fl.	No.	FINISH Floors	Walls	FIXTURES Wc.	La.	Tub	Type	Grade	SHOWER St.	O.T.	G.D.	Finish
1	1	Lino	Ply	1	1	1	M	A				Tile

SPECIAL FEATURES

Book Cases	Built in Refrig.	Venetian Blinds
Shutters	" " Oven & Plate	
Vent Fan	" " Dishwasher	

COMPUTATION

Appraiser & Date		11/4/60 Rekins		6/15/64 Hearst-OBALGAN		1970											
Unit	Area	Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost
RES	768	7.20	5530	7.20	5530	8.80	6758										
C-CP	112	2.00	224	2.00	224	3.00	336										
AC			130		130		130										
TOTAL			5884		5884		7224										
NORMAL % GOOD			82		81		71										
R.C.L.N.D			4825		4766		5129										

1.	7224	5129
	2120	1072
2.	9344	6201

A-11 8-56 A 3-54

PLAT SHT #2

MISCELLANEOUS STRUCTURES

Structure	Found.	Cons.	Ext.	Roof	Floor	Int.	Size, etc.

COMPUTATIONS

RES AREA

16 x 18 = 288
24 x 20 = 480
768 / 124

8 f = 7.20
+ 2 CORS @ .02 = .04
7.24

B.F. 6.90
+ 2 COR. @ 02 .04
+ HWD. .25
7.19

Remarks: (1) RES BUILT OF USED MATERIALS - CLASS TAKES THIS INTO CONSIDERATION. 11/4/60 KING

COUNTY ASSESSOR
SAN DIEGO CO. CALIFORNIA

MISCELLANEOUS BUILDING RECORD

SHEET 2 OF 2 SHEETS

PARCEL 646-700-20

ADDRESS 1060 CACTUS RD

DESCRIPTION OF BUILDINGS

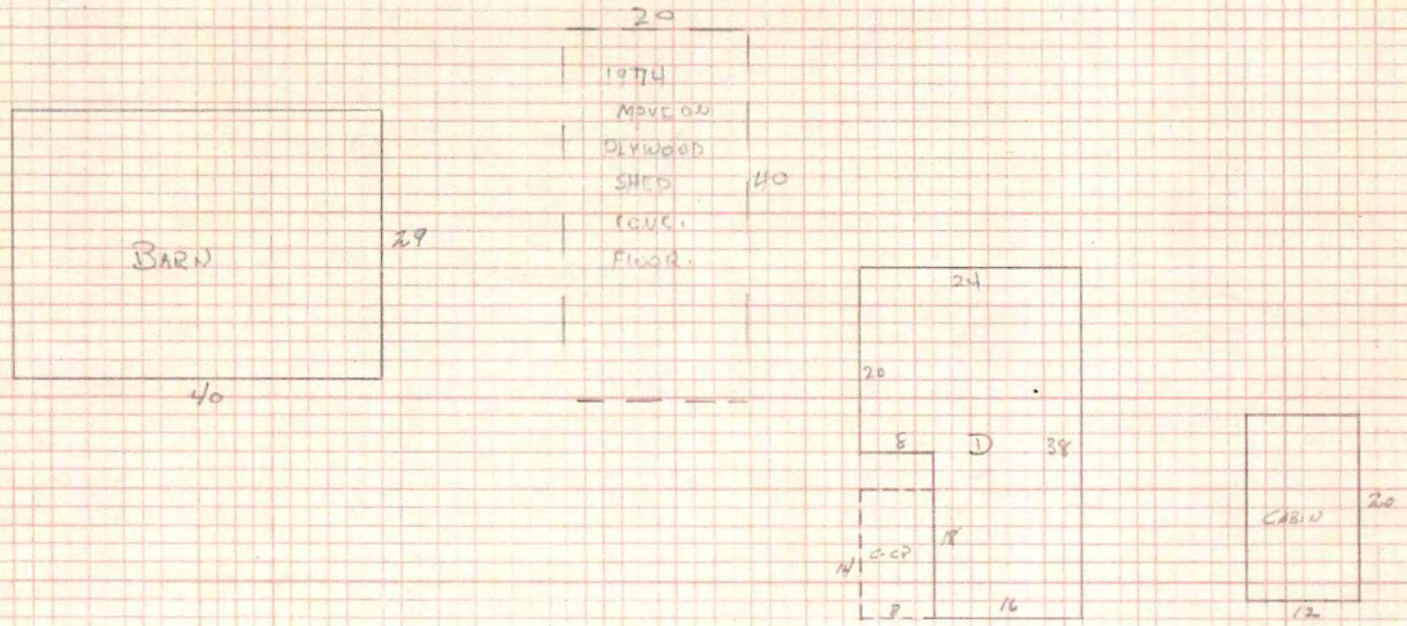
Bldg. No.	Structure	Size	Found.	Wall & Exterior	Roof Type	Roof Cover	Floor & Interior Detail	2nd Story or Loft	Year Built	Effec Year	Table
1	BARN	29x40	MS	B/B	GABLE	ROLL	DIRT - UNF		~~1930~~	~~1930~~	R-30
~~2~~	~~PUMP & PRESSURE TANK~~								~~1950~~	~~1950~~	~~OR25~~
3	CABIN	12x20	CONC	STUCCO	GABLE	C/S	PINE - PLBD		1950	1950	R-40
4	SHED	20x40							1974	1974	R-30

COMPUTATION

Appraiser - Date		11/4/60 R.C. KINS				6/15/64 HEARST-OBBLEWO								10049 7/10/64			
Bldg. No.	Area	Unit Cost	Cost	% Good	R.C.N. L.N.D.	Unit Cost	Cost	% Good	R.C.N. L.N.D.	Unit Cost	Cost	% Good	R.C.N. L.N.D.	Unit Cost	Cost	% Good	R.C.N. L.N.D.
1	1160	1.50	1740	56	974	1.00	1160	40	464	26	12			1.00	1160	46	534
2		~~150~~		~~70~~	~~105~~	OFF											
3	240	4.00	960	82	787	4.00	960	65	624	65	406			4.00	960	56	538
4	800																
Total			2850		1866		2120		1088		527				2120		1072

Appraiser - Date		W. Oakland 74															
Bldg. No.	Area	Unit Cost	Cost	% Good	R.C.N. L.N.D.	Unit Cost	Cost	% Good	R.C.N. L.N.D.	Unit Cost	Cost	% Good	R.C.N. L.N.D.	Unit Cost	Cost	% Good	R.C.N. L.N.D.
1	1160	1.50	1740	19	331												
2																	
3	240	4.00	960	52	499												
4	800	3.00	2400	100	2400												
Total					3180												

A-15 8-56


20
1974
MOVE ON
PLYWOOD
SHED
CONC.
FLOOR.
40
BARN
29
40
24
20
8
D
38
18
14
CCP
8
16
CABIN
20
12

CACTUS 20

Site Plan With Footprint

2160 Cactus Road

APPENDIX B

Ownership and Occupant Information

-Chain of Title
-City Directory Listing of Occupants
-Copy of the Deed from Date of Construction (None)

Chain of Title

Title Records for 2160 Cactus Road

Seller	Buyer	Year
Etta Littlepage	E.G. Littlepage	1935
E.G. Littlepage	John B. Kronebusch and Barbara C. Kronebusch	1935
John B. Kronebusch	Wilma R. Anderson	1945
Wilma R. Anderson	J.L. Blalack and Dorothy M. Blalack	1946
J.L. Blalack, aka J.L. Blalack and Dorothy M. Blalack, aka Dorothy M. Blalack	Emerson M. Harris and Alfia M. Harris	1965
Emerson M. Harris and Alfia M. Harris	Jesus Martinez and Virginia C. Martinez	1971
Jesus Martinez, aka Jesus Martinez Cortez	Virginia C. Martinez	1984
Virginia C. Martinez	Virginia C. Martinez, Elena Martinez and Augustin Martinez, as Co-Trustees	1986
Virginia C. Martinez, Elena Martinez and Augustin Martinez, as Co-Trustees	Virginia C. Martinez	1988
Virginia C. Martinez	Ernesto Martinez and Carlota Martinez, 50% interest; and Augustin Martinez and Cristina Martinez, 50% interest	1988
Cristina Martinez	Augustin Martinez, Ernesto Martinez and Carlota Martinez	2000
Ernesto Martinez and Carlota Martinez	Augustin Martinez	2002
Augustin Martinez	Augustin Martinez, Trustee	2003; Re-Recorded 2004
Augustin Martinez, Augustin Martinez, Trustee, Ernesto Martinez and Carlota Martinez	Augustin Martinez, Trustee, 50% interest; and Ernesto and Carlota Martinez, 50% interest	2004
Cristina Martinez	Augustin Martinez, Trustee	2004

Seller	Buyer	Year
Ernesto Martinez and Carlota Martinez, 50% interest	Ernesto Martinez and Carlota Martinez, Trustees	2004

City Directory
2160 Cactus Road Occupants

Address	Year	Name
1060 Cactus Road	1971	Laguna Jesus
	1972	
	1973	
	1974	
	1975	Directory Not Available
	1976	Laguna Jesus
	1977	
	1978	
	1979	
	1980	Directory Not Available
	1981	
	1982	Laguna Jesus Martinez Ernesto
	1983	
	1984	
	1985	
	1986	
	1987	
	1988	Laguna Jesus Martinez Agustin
	1989	XXXX
	1990	Laguna Jesus Martinez Agustin
2160 Cactus Road	1991	Directory Not Available
	1992-1993	Martinez Agustin Rodriguez Flores A
	1993	Martinez Agustin RodriguezFlores Ana
	1994	
	1995-1996	
	1996-1997	Martinez Agustin RodriguezFlores Ana South Bay Farmers Coop Assn
	1997-1998	
	1998-1999	
	1999-2000	
	2001	
	2002	
	2003	Martinez Agustin Ramos Ana South Bay Farmers Coop Assn
	2004	Keays Tony Martinez Agustin Ramos Ana South Bay Farmers Coop Assn
	2005	Delgado Jaqueline Keays Tony Martinez Agustin Ramos Ana South Bay Farmers Coop Assn
	2006	Keays Tony Martinez Agustin Navarro Susana Ramos Ana

Address	Year	Name
		South Bay Farmers Coop Assn
	2007	Martinez Agustin Navarro Susana Ramos Ana South Bay Farmers Coop Assn
	2008	
	2009	Directory Not Available
	2010	Martinez Agustin Navarro Susana Ramos Angel South Bay Farmers Coop Assn
	2011	Directory Not Available
	2012	Diaz Jose Martinez Agustin Navarro Susana Ramos Angel South Bay Farmers Coop Assn
	2013	APARTMENTS Delgado Jacqueline Diaz Jose Flores Julian Martinez Agustin Navarro Susana Ramos Ana Rodriguez Ana
	2014	Diaz Jose Navarro Susana Ramos Ana
	2015	
	2016	Diaz Jose Navarro Susana

APPENDIX C

Maps

-Figure 1: City of San Diego 800'
Scale Engineering Map
-Figure 2: 1943 USGS Map
-Figure 3: 1955 USGS Map
-Figure 4: Current USGS Map
-Figure 5: Current Assessor's Parcel Map
No Original Subdivision Map
No Sanborn Maps (Outside of Coverage Area)

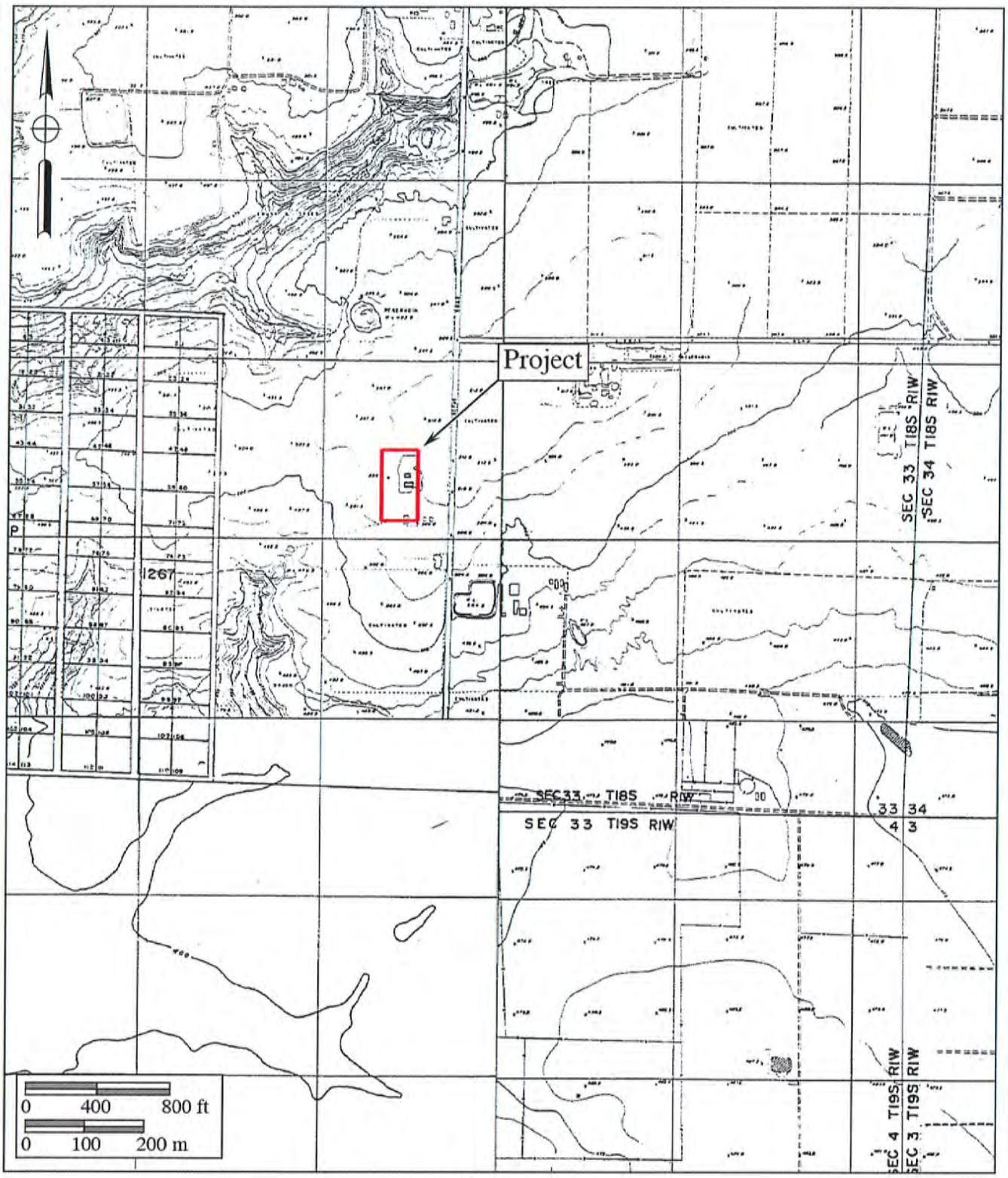


Figure 1

Project Location Map

2160 Cactus Road

Shown on The City of San Diego 1" to 800' Scale Engineering Map

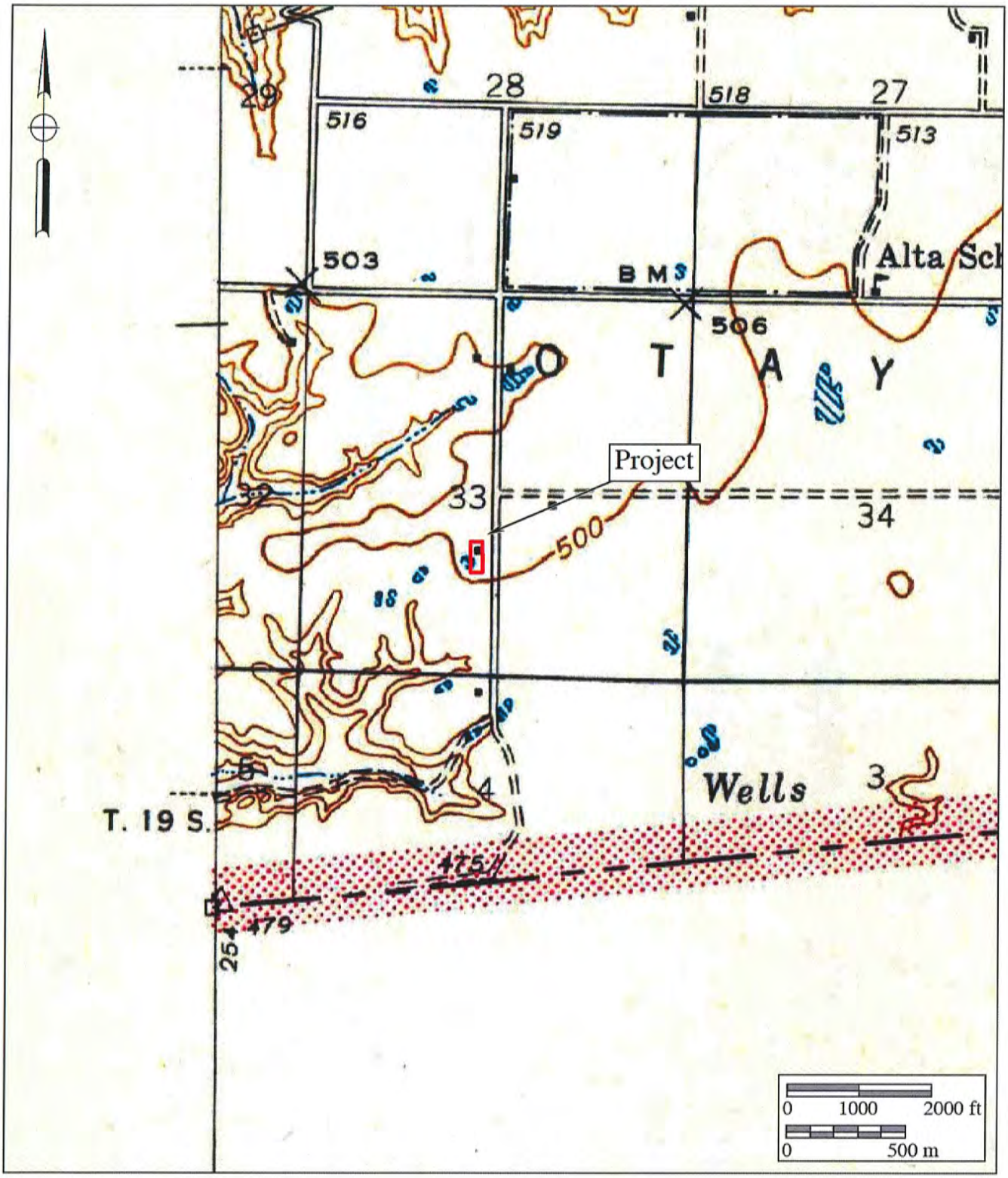


Figure 2

1943 USGS Map

2160 Cactus Road

USGS *Jamul* Quadrangle (15-minute series)

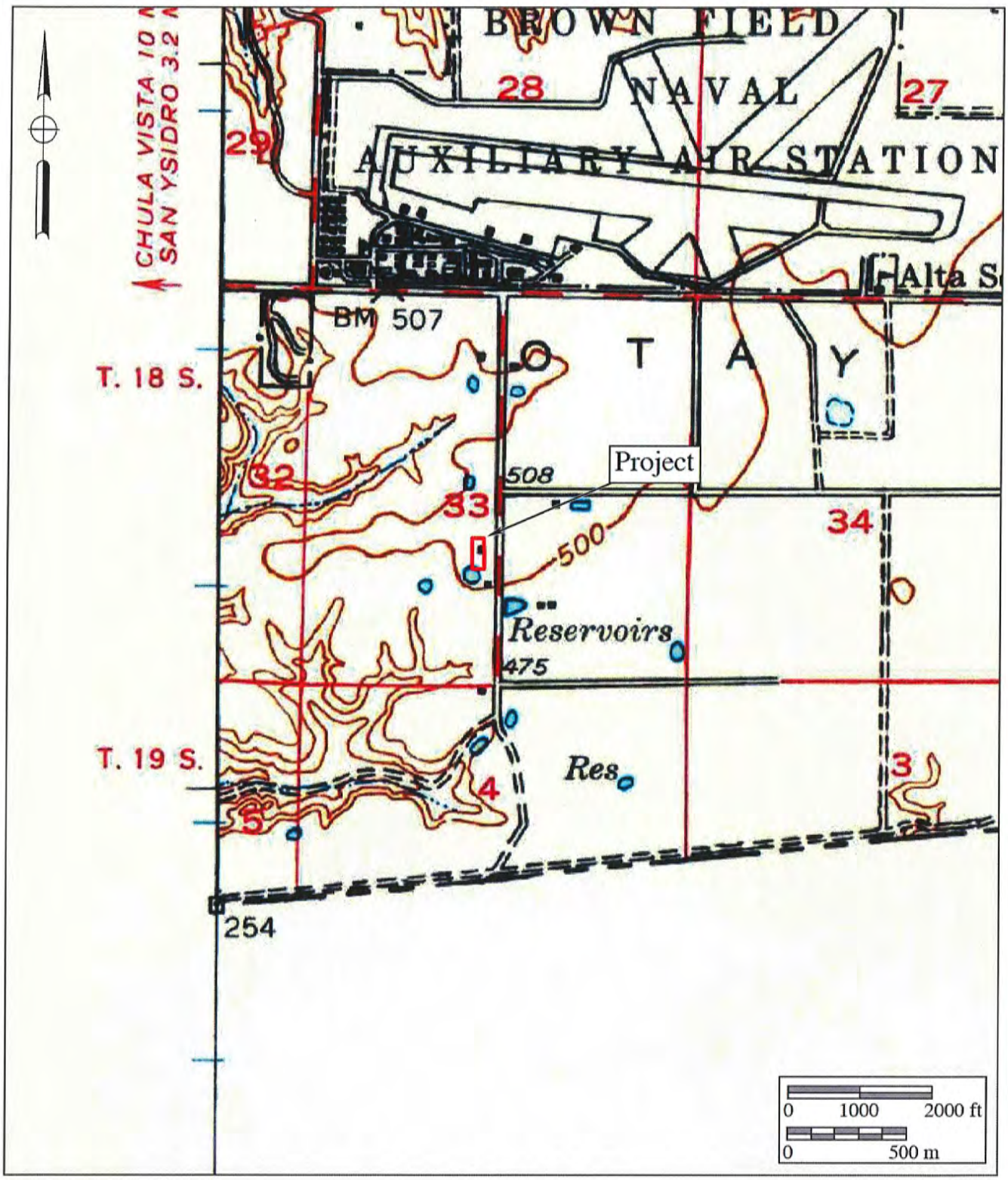


Figure 3

1955 USGS Map

2160 Cactus Road

USGS *Jamul* Quadrangle (15-minute series)

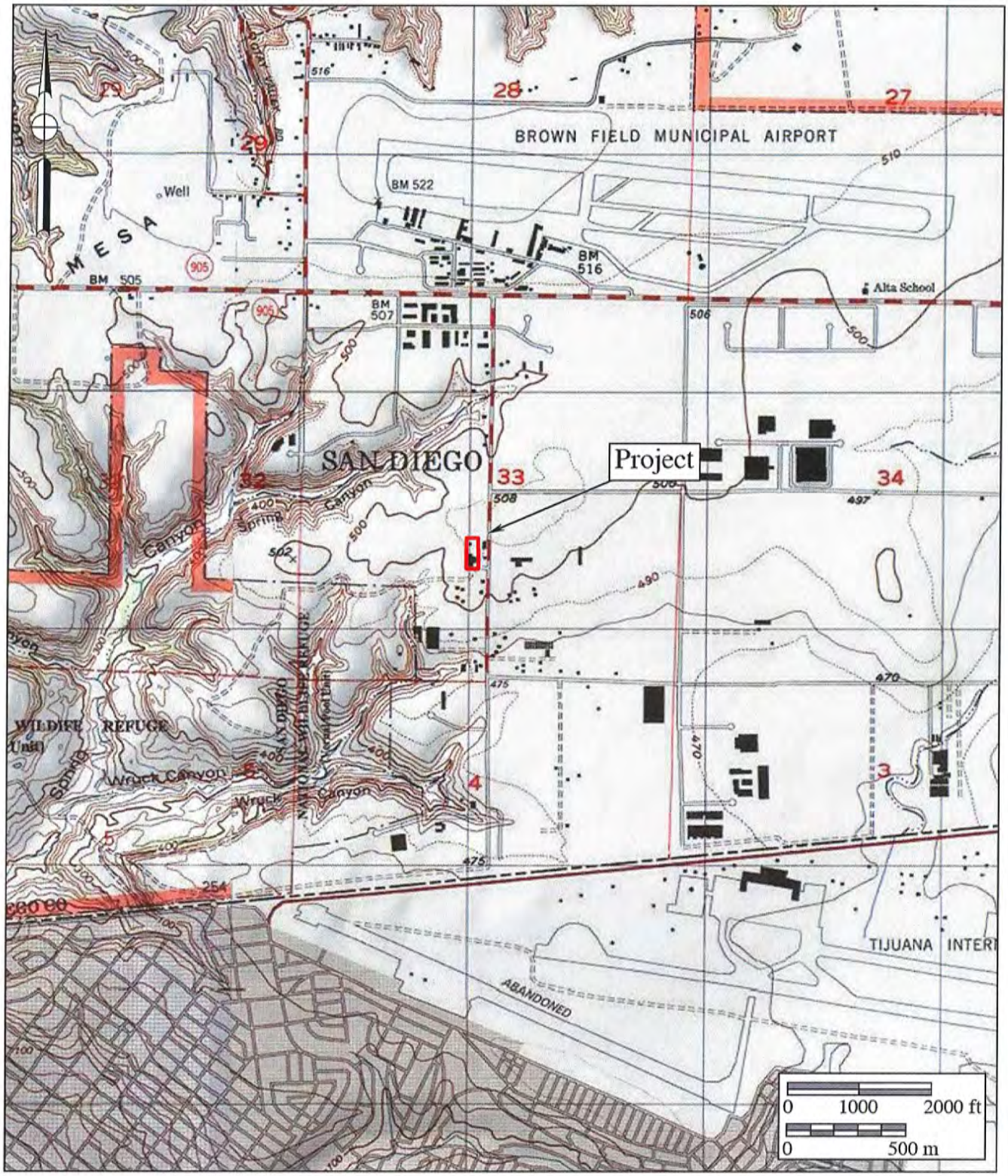


Figure 4
Current USGS Map

2160 Cactus Road

USGS *Otay Mesa* and *San Ysidro* Quadrangles (7.5-minute series)

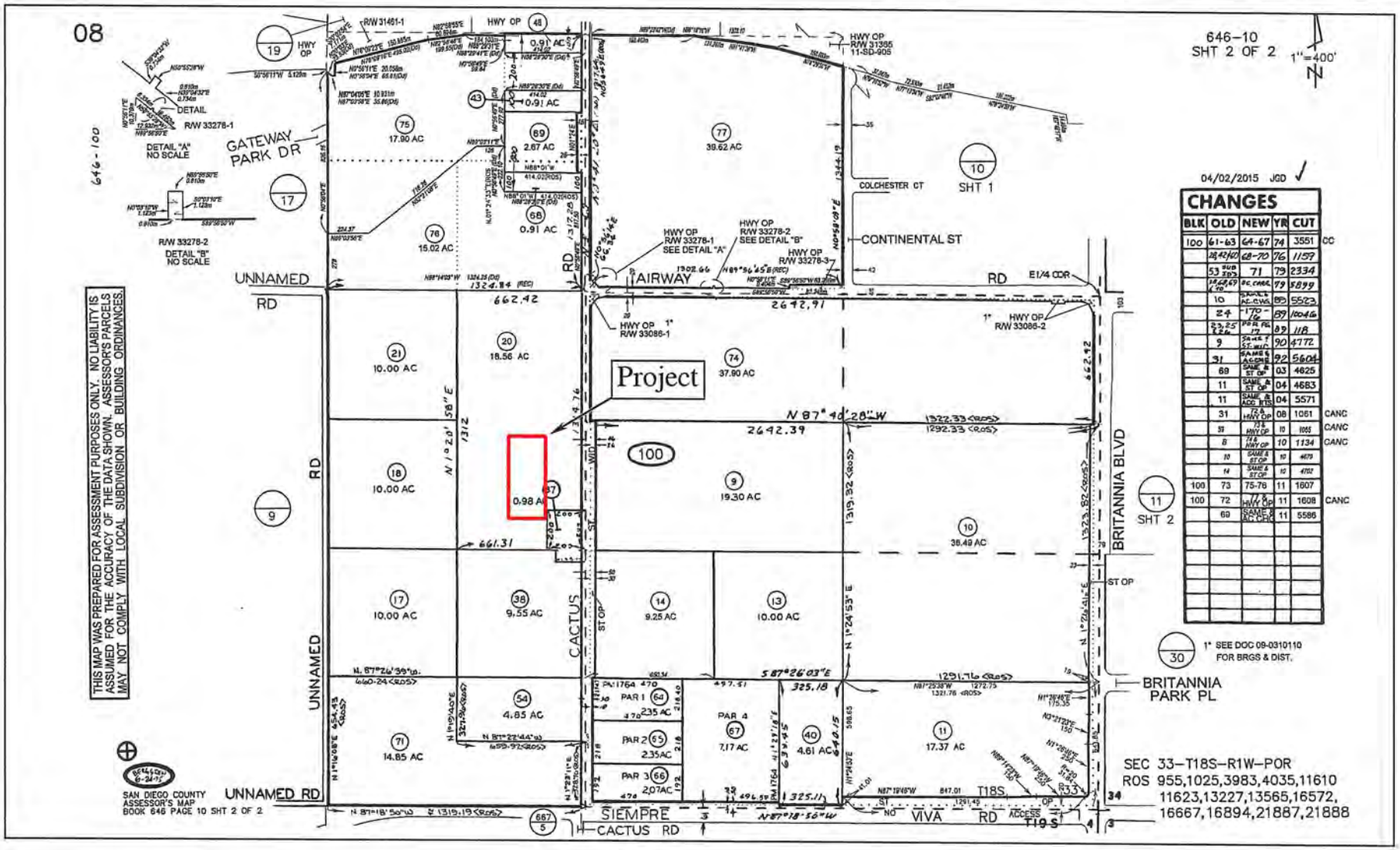


Figure 5

Current Assessor's Parcel Map

2160 Cactus Road

APPENDIX D

DPR Forms

State of California — The Resources Agency DEPARTMENT OF PARKS AND RECREATION **PRIMARY RECORD**	Primary # HRI # Trinomial NRHP Status Code 6Z
Other Listings Review Code	Reviewer / Date

 ***Resource Name or #:** 2160 Cactus Road

P1. Other Identifier:

***P2. Location:** ■ **Not for Publication** ☐ **Unrestricted** ***a. County:** San Diego

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** *Otay Mesa, California* **Date:** N.D. **T** 18 S; **R** 1 W; M.D. **B.M. San Bernardino**

c. Address: 2160 Cactus Road City: San Diego Zip: 92154

d. UTM: Zone: mE/ mN (G.P.S.)

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate): The building is located on Assessor's Parcel Number (APN) 646-100-20 and includes "the east half of the northeast quarter of the southwest quarter of Section 33, Township 18 South, Range 1 West, San Bernardino Meridian, according to the United States Government Survey approved September 11, 1879, excepting therefrom the easterly 200 feet of the southerly 200 feet thereof."

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries.)

Four buildings that meet the 45-year age threshold for historic structures are located at 2160 Cactus Road, including a Gable and Wing Roof Minimal Traditional style single-family residence with Ranch style influences, a cabin, and two offices. According to the Assessor's building record, the single-family residence at 2160 Cactus Road was originally constructed in 1944 in the Gable-and-Wing Roof Minimal Traditional architectural style with Ranch style influences by an unknown builder. The residence is a single-story structure of standard frame construction on a concrete foundation with a stucco exterior. The residence was constructed in an "L" shape, with the entryway located under a full-length front porch on the south façade of the northeastward-projecting wing. The residence exhibits a low-pitched, cross-gabled roof covered in composite shingles with exposed eaves and a moderate eave overhang. Original windows are present everywhere except for a single window on the eastern portion of the north façade, which has been boarded-up. According to the building record, the cabin was constructed in 1950. It is a small, rectangular building with a front-gabled shingled roof, two entry doors, and four 1/1 wood-framed, double-hung windows. Office 1 was constructed between 1971 and 1974 with wood framing and plywood walls. The roof is front-gabled and covered in composite shingles. The building exhibits two wood entry doors on the east façade, three wood-framed hopper windows on the south façade, and one aluminum-framed three-pane casement window on the west façade. An awning with a corrugated metal roof was constructed off of the north façade of the office building between 1971 and 1981. Office 2 is located within a complex of various structural additions that have been made to the property, most of which exhibit partial walls constructed of re-used materials. Office 2 was constructed between 1971 and 1974 using wood framing and plywood walls. The roof is front-gabled and covered in composite shingles. Between 1981 and 1989, various corrugated metal awnings, an apartment building, and poured concrete structures with no windows were constructed surrounding Office 2.

***P3b. Resource Attributes:** (List attributes and codes) HP2: Single Family Property; HP4: Ancillary Buildings

***P4. Resources Present:** ■Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5a. Photo or Drawing

P5b. Description of Photo: (View, date, accession #) South façade of the single-family residence, facing northwest

***P6. Date Constructed/Age and Sources:** 1944, Building Record; 1950, Building Record; 1971-1974, Aerial Photographs

■Historic. ☐Prehistoric ☐Both

***P7. Owner and Address:**
ColRich
444 West Beech Street, Suite 300
San Diego, California 92101

***P8. Recorded by:** (Name, affiliation, and address)
Brian F. Smith and J.R.K. Stropes
Brian F. Smith and Associates, Inc.
14010 Poway Road, Suite A
Poway, California 92064

***P9. Date Recorded:** 3/27/18

***P10. Survey Type:** (Describe)
Historic Resource Technical Report

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Smith, Brian F. and Stropes, J.R.K. 2018. Historic Resource Technical Report for 2160 Cactus Road, San Diego, California.

***Attachments:** ☐NONE ■Location Map ☐Sketch Map ☐Continuation Sheet ■Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

 ***NRHP Status Code**: 6Z

***Resource Name or #:** 2160 Cactus Road

B1. Historic Name:
B2. Common Name:
B3. Original Use: Residential B4. Present Use: Residential

***B5. Architectural Style:** Gable and Wing Roof Minimal Traditional style single-family residence with Ranch style influences

***B6. Construction History** (Construction date, alterations, and date of alterations): Single-family residence built in 1944; water heater closet addition to residence at an unknown date; bump-out addition to residence at unknown date; cabin built in 1950; Office 1 built between 1971 and 1974; awning addition to Office 1 between 1971 and 1981; Office 2 built between 1971 and 1974; various corrugated metal awnings, an apartment building, and poured concrete structures constructed surrounding Office 2 between 1981 and 1989.

***B7. Moved?** ■**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** Same

***B8. Related Features:** None

B9a. Architect: Unknown b. Builder: Unknown

***B10. Significance** **Theme:** **Area:** San Diego

Period of Significance: **Property Type:** Residential **Applicable Criteria:** None

(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

The 2160 Cactus Road residence was constructed in 1944 and the cabin in 1950 in their current locations. In addition, no evidence could be found to indicate that the offices had been moved to the property from a different location. Aerial photographs and the current site plan with footprint delineated indicate that the buildings have not been moved or their locations otherwise impacted in any way. The single-family residence was designed in the Gable and Wing Roof Minimal Traditional architectural style with Ranch influences. The Gable and Wing Roof is a subtype of the Minimal Traditional style that exhibits a low-pitched front facing gable added on one side of a side-gabled roof (McAlester 2013). The only potential modification made to the building since its original construction is the small bump-out on the north façade. However, because the bump-out is not documented as an addition and evidence of the use of newer materials could not be substantiated based on visual inspection, it is possible that the bump-out is original to the building. Regardless, the placement of the bump-out on a secondary façade, even if it is not original, did not impact the single-family residence's integrity of design. The only change made to the cabin is the addition of a wood-framed screen door on the south façade. This modification did not impact the cabin's integrity of design. Modifications made to Office 1 include the addition of an aluminum-framed casement window on the west façade and the construction of a wood-framed awning with a metal roof on the north façade. The construction of the awning, specifically, altered the building's form, plan, and space. As a result, Office 1 no longer retains integrity of design. Office 2 has been modified extensively since it was originally constructed. Between 1981 and 1989 various corrugated metal awnings, an apartment building, and poured concrete structures with no windows were constructed surrounding Office 2. Corrugated metal walls were constructed onto the roof of Office 2 in order to enclose the interior space created by the corrugated metal roofing constructed around the building. Although Office 2 was not designed in any particular architectural style due to its intended use as purely a utilitarian farm office building, the structures that have been attached to the building have completely enveloped it, thereby negatively impacting the building's overall form, plan, space and structure. Office 2, therefore, no longer retains integrity of design.

Although the single-family residence located at 2160 Cactus Road is considered to be Minimal Traditional in style with Ranch influences, it is not a unique or distinguished example of either style, nor is it associated with any sort of district, tract, or later form of development. The building is also not associated with any recognized architects or builders. Therefore, the building cannot be considered a representative example of a distinct style, type, period, or method of construction. In addition, because the cabin is an ancillary structure constructed to accompany the single-family residence, and the two office buildings were not designed in any specific architectural style, none of the buildings on the 2160 Cactus Road property embody distinctive characteristics of a style, type, period, or method of construction, or are valuable examples of the use of indigenous materials or craftsmanship.

Historic research revealed that the 2160 Cactus Road property is not associated with any historic persons or events significant in local, state, or national history. None of the individuals who owned the property during the period of construction and none of the later residents of the home were determined to be significant in local, state, or national history.

(This space reserved for official comments.)

B11. Additional Resource Attributes (List attributes and codes): None

***B12. References:** Stropes, J.R.K. and Brian F. Smith. 2018. Historic Resource Technical Report for 2160 Cactus Road San Diego, California.

B13. Remarks: None

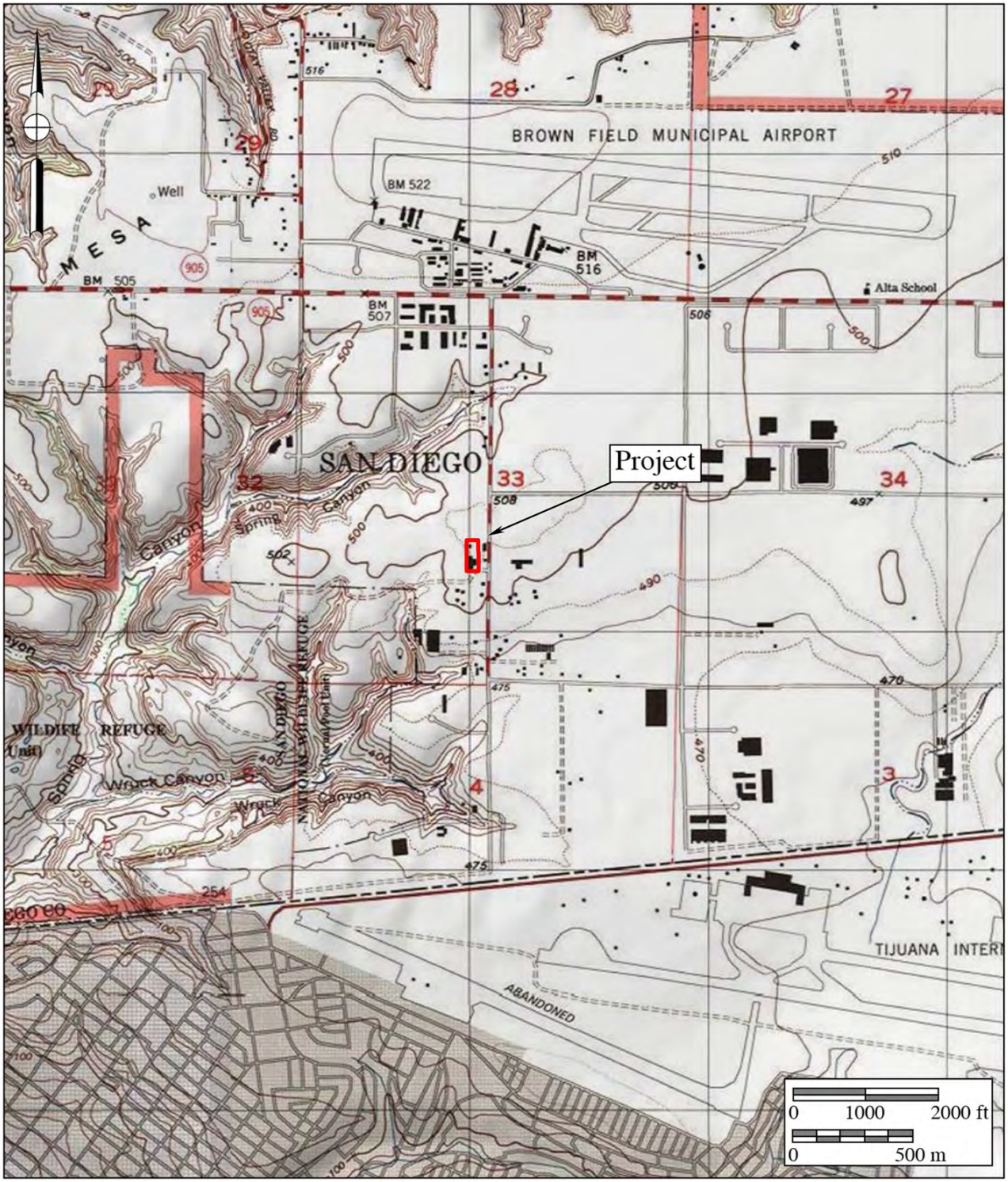
***B14. Evaluator:** Brian F. Smith and J.R.K. Stropes

***Date of Evaluation:** 3/27/18

State of California — The Resources Agency DEPARTMENT OF PARKS AND RECREATION **LOCATION MAP**	Primary # HRI # Trinomial

Page 3 **of** 3 ***Resource Name or #:** 2160 Cactus Road

***Map Name:** *Otay Mesa, California* USGS 7.5-minute Quadrangle ***Map Scale:** 1:24,000 ***Date of Map:** N.d.; digital



APPENDIX E

Preparers' Qualifications

Brian F. Smith, MA

Owner, Principal Investigator

Brian F. Smith and Associates, Inc.
14010 Poway Road • Suite A •
Phone: (858) 679-8218 • Fax: (858) 679-9896 • E-Mail: bsmith@bfsa-ca.com

Education

Master of Arts, History, University of San Diego, California	1982
Bachelor of Arts, History, and Anthropology, University of San Diego, California	1975

Professional Memberships

Society for California Archaeology

Experience

Principal Investigator — 1977–Present
Brian F. Smith and Associates, Inc. — Poway, California

Brian F. Smith is the owner and principal historical and archaeological consultant for Brian F. Smith and Associates. Over the past 32 years, he has conducted over 2,500 cultural resource studies in California, Arizona, Nevada, Montana, and Texas. These studies include every possible aspect of archaeology from literature searches and large-scale surveys to intensive data recovery excavations. Reports prepared by Mr. Smith have been submitted to all facets of local, state, and federal review agencies, including the US Army Crops of Engineers, the Bureau of Land Management, the Bureau of Reclamation, the Department of Defense, and the Department of Homeland Security. In addition, Mr. Smith has conducted studies for utility companies (Sempra Energy) and state highway departments (CalTrans).

Professional Accomplishments

These selected major professional accomplishments represent research efforts that have added significantly to the body of knowledge concerning the prehistoric life ways of cultures once present in the Southern California area and historic settlement since the late 18th century. Mr. Smith has been principal investigator on the following select projects, except where noted.

Downtown San Diego Mitigation and Monitoring Reporting Programs: Large numbers of downtown San Diego mitigation and monitoring projects submitted to the Centre City Development Corporation, some of which included Strata (2008), Hotel Indigo (2008), Lofts at 707 10th Avenue Project (2007), Breeza (2007), Bayside at the Embarcadero (2007), Aria (2007), Icon (2007), Vantage Pointe (2007), Aperture (2007), Sapphire Tower (2007), Lofts at 655 Sixth Avenue (2007), Metrowork (2007), The Legend (2006), The Mark (2006), Smart Corner (2006), Lofts at 677 7th Avenue (2005), Aloft on Cortez Hill (2005), Front and

Beech Apartments (2003), Bella Via Condominiums (2003), Acqua Vista Residential Tower (2003), Northblock Lofts (2003), Westin Park Place Hotel (2001), Parkloft Apartment Complex (2001), Renaissance Park (2001), and Laurel Bay Apartments (2001).

Archaeology at the Padres Ballpark: Involved the analysis of historic resources within a seven-block area of the "East Village" area of San Diego, where occupation spanned a period from the 1870s to the 1940s. Over a period of two years, BFSA recovered over 200,000 artifacts and hundreds of pounds of metal, construction debris, unidentified broken glass, and wood. Collectively, the Ballpark Project and the other downtown mitigation and monitoring projects represent the largest historical archaeological program anywhere in the country in the past decade (2000-2007).

4S Ranch Archaeological and Historical Cultural Resources Study: Data recovery program consisted of the excavation of over 2,000 square meters of archaeological deposits that produced over one million artifacts, containing primarily prehistoric materials. The archaeological program at 4S Ranch is the largest archaeological study ever undertaken in the San Diego County area and has produced data that has exceeded expectations regarding the resolution of long-standing research questions and regional prehistoric settlement patterns.

Charles H. Brown Site: Attracted international attention to the discovery of evidence of the antiquity of man in North America. Site located in Mission Valley, in the city of San Diego.

Del Mar Man Site: Study of the now famous Early Man Site in Del Mar, California, for the San Diego Science Foundation and the San Diego Museum of Man, under the direction of Dr. Spencer Rogers and Dr. James R. Moriarty.

Old Town State Park Projects: Consulting Historical Archaeologist. Projects completed in the Old Town State Park involved development of individual lots for commercial enterprises. The projects completed in Old Town include Archaeological and Historical Site Assessment for the Great Wall Cafe (1992), Archaeological Study for the Old Town Commercial Project (1991), and Cultural Resources Site Survey at the Old San Diego Inn (1988).

Site W-20, Del Mar, California: A two-year-long investigation of a major prehistoric site in the Del Mar area of the city of San Diego. This research effort documented the earliest practice of religious/ceremonial activities in San Diego County (circa 6,000 years ago), facilitated the projection of major non-material aspects of the La Jolla Complex, and revealed the pattern of civilization at this site over a continuous period of 5,000 years. The report for the investigation included over 600 pages, with nearly 500,000 words of text, illustrations, maps, and photographs documenting this major study.

City of San Diego Reclaimed Water Distribution System: A cultural resource study of nearly 400 miles of pipeline in the city and county of San Diego.

Master Environmental Assessment Project, City of Poway: Conducted for the City of Poway to produce a complete inventory of all recorded historic and prehistoric properties within the city. The information was used in conjunction with the City's General Plan Update to produce a map matrix of the city showing areas of high, moderate, and low potential for the presence of cultural resources. The effort also included the development of the City's Cultural Resource Guidelines, which were adopted as City policy.

Draft of the City of Carlsbad Historical and Archaeological Guidelines: Contracted by the City of Carlsbad to produce the draft of the City's historical and archaeological guidelines for use by the Planning Department of the City.

The Mid-Bayfront Project for the City of Chula Vista: Involved a large expanse of undeveloped agricultural land situated between the railroad and San Diego Bay in the northwestern portion of the city. The study included the analysis of some potentially historic features and numerous prehistoric sites.

Cultural Resources Survey and Test of Sites Within the Proposed Development of the Audie Murphy Ranch, Riverside County, California: Project manager/director of the investigation of 1,113.4 acres and 43 sites, both prehistoric and historic—included project coordination; direction of field crews; evaluation of sites for significance based on County of Riverside and CEQA guidelines; assessment of cupule, pictograph, and rock shelter sites, co-authoring of cultural resources project report. February-September 2002.

Cultural Resources Evaluation of Sites Within the Proposed Development of the Otay Ranch Village 13 Project, San Diego County, California: Project manager/director of the investigation of 1,947 acres and 76 sites, both prehistoric and historic—included project coordination and budgeting; direction of field crews; assessment of sites for significance based on County of San Diego and CEQA guidelines; co-authoring of cultural resources project report. May-November 2002.

Cultural Resources Survey for the Remote Video Surveillance Project, El Centro Sector, Imperial County: Project manager/director for a survey of 29 individual sites near the U.S./Mexico Border for proposed video surveillance camera locations associated with the San Diego Border barrier Project—project coordination and budgeting; direction of field crews; site identification and recordation; assessment of potential impacts to cultural resources; meeting and coordinating with U.S. Army Corps of Engineers, U.S. Border Patrol, and other government agencies involved; co-authoring of cultural resources project report. January, February, and July 2002.

Cultural Resources Survey and Test of Sites Within the Proposed Development of the Menifee West GPA, Riverside County, California: Project manager/director of the investigation of nine sites, both prehistoric and historic—included project coordination and budgeting; direction of field crews; assessment of sites for significance based on County of Riverside and CEQA guidelines; historic research; co-authoring of cultural resources project report. January-March 2002.

Mitigation of An Archaic Cultural Resource for the Eastlake III Woods Project for the City of Chula Vista, California: Project archaeologist/ director—included direction of field crews; development and completion of data recovery program including collection of material for specialized faunal and botanical analyses; assessment of sites for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; co-authoring of cultural resources project report, in prep. September 2001-March 2002.

Cultural Resources Survey and Test of Sites Within the Proposed French Valley Specific Plan/EIR, Riverside County, California: Project manager/director of the investigation of two prehistoric and three historic sites—included project coordination and budgeting; survey of project area; Native American consultation; direction of field crews; assessment of sites for significance based on CEQA guidelines; cultural resources project report in prep. July-August 2000.

Cultural Resources Survey and Test of Sites Within the Proposed Lawson Valley Project, San Diego County, California: Project manager/director of the investigation of 28 prehistoric and two historic sites—included project coordination; direction of field crews; assessment of sites for significance based on CEQA guidelines; cultural resources project report in prep. July-August 2000.

Cultural Resource Survey and Geotechnical Monitoring for the Mohyi Residence Project, La Jolla, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; field survey; assessment of parcel for potentially buried cultural deposits; monitoring of geotechnichal borings; authoring of cultural resources project report. Brian F. Smith and Associates, San Diego, California. June 2000.

Enhanced Cultural Resource Survey and Evaluation for the Prewitt/Schmucker/Cavadias Project, La Jolla, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; direction of field crews; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. June 2000.

Cultural Resources Survey and Test of Sites Within the Proposed Development of the Menifee Ranch, Riverside County, California: Project manager/director of the investigation of one prehistoric and five historic sites—included project coordination and budgeting; direction of field crews; feature recordation; historic structure assessments; assessment of sites for significance based on CEQA guidelines; historic research; co-authoring of cultural resources project report. February-June 2000.

Salvage Mitigation of a Portion of the San Diego Presidio Identified During Water Pipe Construction for the City of San Diego, California: Project archaeologist/director—included direction of field crews; development and completion of data recovery program; management of artifact collections cataloging and curation; data synthesis and authoring of cultural resources project report in prep. April 2000.

Enhanced Cultural Resource Survey and Evaluation for the Tyrian 3 Project, La Jolla, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. April 2000.

Enhanced Cultural Resource Survey and Evaluation for the Lamont 5 Project, Pacific Beach, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. April 2000.

Enhanced Cultural Resource Survey and Evaluation for the Reiss Residence Project, La Jolla, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. March-April 2000.

Salvage Mitigation of a Portion of Site SDM-W-95 (CA-SDI-211) for the Poinsettia Shores Santalina Development Project and Caltrans, Carlsbad, California: Project achaeologist/ director—included direction of field crews; development and completion of data recovery program; management of artifact collections cataloging and curation; data synthesis and authoring of cultural resources project report in prep. December 1999-January 2000.

Survey and Testing of Two Prehistoric Cultural Resources for the Airway Truck Parking Project, Otay Mesa, California: Project archaeologist/director—included direction of field crews; development and completion of testing recovery program; assessment of site for significance based on CEQA guidelines; authoring of cultural resources project report, in prep. December 1999-January 2000.

Cultural Resources Phase I and II Investigations for the Tin Can Hill Segment of the Immigration and Naturalization Services Triple Fence Project Along the International Border, San Diego County, California: Project manager/director for a survey and testing of a prehistoric quarry site along the border—NRHP eligibility assessment; project coordination and budgeting; direction of field crews; feature recordation; meeting and coordinating with U.S. Army Corps of Engineers; co-authoring of cultural resources project report. December 1999-January 2000.

Mitigation of a Prehistoric Cultural Resource for the Westview High School Project for the City of San Diego, California: Project archaeologist/ director—included direction of field crews; development and completion of data recovery program including collection of material for specialized faunal and botanical analyses; assessment of sites for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; co-authoring of cultural resources project report, in prep. October 1999-January 2000.

Mitigation of a Prehistoric Cultural Resource for the Otay Ranch SPA-One West Project for the City of Chula Vista, California: Project archaeologist/director—included direction of field crews; development of data recovery program; management of artifact collections cataloging and curation; assessment of

site for significance based on CEQA guidelines; data synthesis; authoring of cultural resources project report, in prep. September 1999-January 2000.

Monitoring of Grading for the Herschel Place Project, La Jolla, California: Project archaeologist/ monitor—included monitoring of grading activities associated with the development of a single-dwelling parcel. September 1999.

Survey and Testing of a Historic Resource for the Osterkamp Development Project, Valley Center, California: Project archaeologist/ director—included direction of field crews; development and completion of data recovery program; budget development; assessment of site for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; authoring of cultural resources project report. July-August 1999.

Survey and Testing of a Prehistoric Cultural Resource for the Proposed College Boulevard Alignment Project, Carlsbad, California: Project manager/director —included direction of field crews; development and completion of testing recovery program; assessment of site for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; authoring of cultural resources project report, in prep. July-August 1999.

Survey and Evaluation of Cultural Resources for the Palomar Christian Conference Center Project, Palomar Mountain, California: Project archaeologist—included direction of field crews; assessment of sites for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; authoring of cultural resources project report. July-August 1999.

Survey and Evaluation of Cultural Resources at the Village 2 High School Site, Otay Ranch, City of Chula Vista, California: Project manager/director —management of artifact collections cataloging and curation; assessment of site for significance based on CEQA guidelines; data synthesis; authoring of cultural resources project report. July 1999.

Cultural Resources Phase I, II, and III Investigations for the Immigration and Naturalization Services Triple Fence Project Along the International Border, San Diego County, California: Project manager/director for the survey, testing, and mitigation of sites along border—supervision of multiple field crews, NRHP eligibility assessments, Native American consultation, contribution to Environmental Assessment document, lithic and marine shell analysis, authoring of cultural resources project report. August 1997-January 2000.

Phase I, II, and II Investigations for the Scripps Poway Parkway East Project, Poway California: Project archaeologist/project director—included recordation and assessment of multicomponent prehistoric and historic sites; direction of Phase II and III investigations; direction of laboratory analyses including prehistoric and historic collections; curation of collections; data synthesis; coauthorship of final cultural resources report. February 1994; March-September 1994; September-December 1995.

Archaeological Evaluation of Cultural Resources Within the Proposed Corridor for the San Elijo Water Reclamation System Project, San Elijo, California: Project manager/director —test excavations; direction of artifact identification and analysis; graphics production; coauthorship of final cultural resources report. December 1994-July 1995.

Evaluation of Cultural Resources for the Environmental Impact Report for the Rose Canyon Trunk Sewer Project, San Diego, California: Project manager/Director —direction of test excavations; identification and analysis of prehistoric and historic artifact collections; data synthesis; co-authorship of final cultural resources report, San Diego, California. June 1991-March 1992.

Reports/Papers

Author, coauthor, or contributor to over 2,500 cultural resources management publications, a selection of which are presented below.

2015 An Archaeological/Historical Study for the Safari Highlands Ranch Project, City of Escondido, County of San Diego.

2015 A Phase I and II Cultural Resources Assessment for the Decker Parcels II Project, Planning Case No. 36962, Riverside County, California.

2015 A Phase I and II Cultural Resources Assessment for the Decker Parcels I Project, Planning Case No. 36950, Riverside County, California.

2015 Cultural Resource Data Recovery and Mitigation Monitoring Program for Site SDI-10,237 Locus F, Everly Subdivision Project, El Cajon, California.

2015 Phase I Cultural Resource Survey for the Woodward Street Senior Housing Project, City of San Marcos, California (APN 218-120-31).

2015 An Updated Cultural Resource Survey for the Box Springs Project (TR 33410), APNs 255-230-010, 255-240-005, 255-240-006, and Portions of 257-180-004, 257-180-005, and 257-180-006.

2015 A Phase I and II Cultural Resource Report for the Lake Ranch Project, TR 36730, Riverside County, California.

2015 A Phase II Cultural Resource Assessment for the Munro Valley Solar Project, Inyo County, California.

2014 Cultural Resources Monitoring Report for the Diamond Valley Solar Project, Community of Winchester, County of Riverside.

2014 National Historic Preservation Act Section 106 Compliance for the Proposed Saddleback Estates Project, Riverside County, California.

2014 A Phase II Cultural Resource Evaluation Report for RIV-8137 at the Toscana Project, TR 36593, Riverside County, California.

2014 Cultural Resources Study for the Estates at Del Mar Project, City of Del Mar, San Diego, California (TTM 14-001).

2014 Cultural Resources Study for the Aliso Canyon Major Subdivision Project, Rancho Santa Fe, San Diego County, California.

2014 Cultural Resources Due Diligence Assessment of the Ocean Colony Project, City of Encinitas.

2014 A Phase I and Phase II Cultural Resource Assessment for the Citrus Heights II Project, TTM 36475, Riverside County, California.

2013 A Phase I Cultural Resource Assessment for the Modular Logistics Center, Moreno Valley, Riverside County, California.

2013 A Phase I Cultural Resources Survey of the Ivey Ranch Project, Thousand Palms, Riverside County, California.

2013 Cultural Resources Report for the Emerald Acres Project, Riverside County, California.

2013 A Cultural Resources Records Search and Review for the Pala Del Norte Conservation Bank Project, San Diego County, California.

2013 An Updated Phase I Cultural Resources Assessment for Tentative Tract Maps 36484 and 36485, Audie Murphy Ranch, City of Menifee, County of Riverside.

2013 El Centro Town Center Industrial Development Project (EDA Grant No. 07-01-06386); Result of Cultural Resource Monitoring.

2013 Cultural Resources Survey Report for the Renda Residence Project, 9521 La Jolla Farms Road, La Jolla, California.

2013 A Phase I Cultural Resource Study for the Ballpark Village Project, San Diego, California.

2013 Archaeological Monitoring and Mitigation Program, San Clemente Senior Housing Project, 2350 South El Camino Real, City of San Clemente, Orange County, California (CUP No. 06-065; APN-060-032-04).

2012 Mitigation Monitoring Report for the Los Peñasquitos Recycled Water Pipeline.

2012 Cultural Resources Report for Menifee Heights (Tract 32277).

2012 A Phase I Cultural Resource Study for the Altman Residence at 9696 La Jolla Farms Road, La Jolla, California 92037.

2012 Mission Ranch Project (TM 5290-1/MUP P87-036W3): Results of Cultural Resources Monitoring During Mass Grading.

2012 A Phase I Cultural Resource Study for the Payan Property Project, San Diego, California.

2012 Phase I Archaeological Survey of the Rieger Residence, 13707 Durango Drive, Del Mar, California 92014, APN 300-369-49.

2011 Mission Ranch Project (TM 5290-1/MUP P87-036W3): Results of Cultural Resources Monitoring During Mass Grading.

2011 Mitigation Monitoring Report for the 1887 Viking Way Project, La Jolla, California.

2011 Cultural Resource Monitoring Report for the Sewer Group 714 Project.

2011 Results of Archaeological Monitoring at the 10th Avenue Parking Lot Project, City of San Diego, California (APNs 534-194-02 and 03).

2011 Archaeological Survey of the Pelberg Residence for a Bulletin 560 Permit Application; 8335 Camino Del Oro; La Jolla, California 92037 APN 346-162-01-00 .

2011 A Cultural Resources Survey Update and Evaluation for the Robertson Ranch West Project and an Evaluation of National Register Eligibility of Archaeological sites for Sites for Section 106 Review (NHPA).

2011 Mitigation Monitoring Report for the 43rd and Logan Project.

2011 Mitigation Monitoring Report for the Sewer Group 682 M Project, City of San Diego Project #174116.

2011 A Phase I Cultural Resource Study for the Nooren Residence Project, 8001 Calle de la Plata, La Jolla, California, Project No. 226965.

2011 A Phase I Cultural Resource Study for the Keating Residence Project, 9633 La Jolla Farms Road, La Jolla, California 92037.

2010 Mitigation Monitoring Report for the 15th & Island Project, City of San Diego; APNs 535-365-01, 535-365-02 and 535-392-05 through 535-392-07.

2010 Archaeological Resource Report Form: Mitigation Monitoring of the Sewer and Water Group 772 Project, San Diego, California, W.O. Nos. 187861 and 178351.

2010 Pottery Canyon Site Archaeological Evaluation Project, City of San Diego, California, Contract No. H105126.

2010 Archaeological Resource Report Form: Mitigation Monitoring of the Racetrack View Drive Project, San Diego, California; Project No. 163216.

2010 A Historical Evaluation of Structures on the Butterfield Trails Property.

2010 Historic Archaeological Significance Evaluation of 1761 Haydn Drive, Encinitas, California (APN 260-276-07-00).

2010 Results of Archaeological Monitoring of the Heller/Nguyen Project, TPM 06-01, Poway, California.

2010 Cultural Resource Survey and Evaluation Program for the Sunday Drive Parcel Project, San Diego County, California, APN 189-281-14.

2010 Archaeological Resource Report Form: Mitigation Monitoring of the Emergency Garnet Avenue Storm Drain Replacement Project, San Diego, California, Project No. B10062

2010 An Archaeological Study for the 1912 Spindrift Drive Project

2009 Cultural Resource Assessment of the North Ocean Beach Gateway Project City of San Diego #64A-003A; Project #154116.

2009 Archaeological Constraints Study of the Morgan Valley Wind Assessment Project, Lake County, California.

2008 Results of an Archaeological Review of the Helen Park Lane 3.1-acre Property (APN 314-561-31), Poway, California.

2008 Archaeological Letter Report for a Phase I Archaeological Assessment of the Valley Park Condominium Project, Ramona, California; APN 282-262-75-00.

2007 Archaeology at the Ballpark. Brian F. Smith and Associates, San Diego, California. Submitted to the Centre City Development Corporation.

2007 Result of an Archaeological Survey for the Villages at Promenade Project (APNs 115-180-007-3,115-180-049-1, 115-180-042-4, 115-180-047-9) in the City of Corona, Riverside County.

2007 Monitoring Results for the Capping of Site CA-SDI-6038/SDM-W-5517 within the Katzer Jamul Center Project; P00-017.

2006 Archaeological Assessment for The Johnson Project (APN 322-011-10), Poway, California.

2005 Results of Archaeological Monitoring at the El Camino Del Teatro Accelerated Sewer Replacement Project (Bid No. K041364; WO # 177741; CIP # 46-610.6.

2005 Results of Archaeological Monitoring at the Baltazar Draper Avenue Project (Project No. 15857; APN: 351-040-09).

2004 TM 5325 ER #03-14-043 Cultural Resources.

2004 An Archaeological Survey and an Evaluation of Cultural Resources at the Salt Creek Project. Report on file at Brian F. Smith and Associates.

2003 An Archaeological Assessment for the Hidden Meadows Project, San Diego County, TM 5174, Log No. 99-08-033. Report on file at Brian F. Smith and Associates.

2003 An Archaeological Survey for the Manchester Estates Project, Coastal Development Permit #02-009, Encinitas, California. Report on file at Brian F. Smith and Associates.

2003 Archaeological Investigations at the Manchester Estates Project, Coastal Development Permit #02-009, Encinitas, California. Report on file at Brian F. Smith and Associates.

2003 Archaeological Monitoring of Geological Testing Cores at the Pacific Beach Christian Church Project. Report on file at Brian F. Smith and Associates.

2003 San Juan Creek Drilling Archaeological Monitoring. Report on file at Brian F. Smith and Associates.

2003 Evaluation of Archaeological Resources Within the Spring Canyon Biological Mitigation Area, Otay Mesa, San Diego County, California. Brian F. Smith and Associates, San Diego, California.

2002 An Archaeological/Historical Study for the Otay Ranch Village 13 Project (et al.). Brian F. Smith and Associates, San Diego, California.

2002 An Archaeological/Historical Study for the Audie Murphy Ranch Project (et al.). Brian F. Smith and Associates, San Diego, California.

2002 Results of an Archaeological Survey for the Remote Video Surveillance Project, El Centro Sector, Imperial County, California. Brian F. Smith and Associates, San Diego, California.

2002 A Cultural Resources Survey and Evaluation for the Proposed Robertson Ranch Project, City of Carlsbad. Brian F. Smith and Associates, San Diego, California.

2002 Archaeological Mitigation of Impacts to Prehistoric Site SDI-7976 for the Eastlake III Woods Project, Chula Vista, California. Brian F. Smith and Associates, San Diego, California.

2002 An Archaeological/Historical Study for Tract No. 29777, Menifee West GPA Project, Perris Valley, Riverside County. Brian F. Smith and Associates, San Diego, California.

2002 An Archaeological/Historical Study for Tract No. 29835, Menifee West GPA Project, Perris Valley, Riverside County. Brian F. Smith and Associates, San Diego, California.

2001 An Archaeological Survey and Evaluation of a Cultural Resource for the Moore Property, Poway. Brian F. Smith and Associates, San Diego, California.

2001 An Archaeological Report for the Mitigation, Monitoring, and Reporting Program at the Water and Sewer Group Job 530A, Old Town San Diego. Brian F. Smith and Associates, San Diego, California.

2001 A Cultural Resources Impact Survey for the High Desert Water District Recharge Site 6 Project, Yucca Valley. Brian F. Smith and Associates, San Diego, California.

2001 Archaeological Mitigation of Impacts to Prehistoric Site SDI-13,864 at the Otay Ranch SPA-One West Project. Brian F. Smith and Associates, San Diego, California.

2001 A Cultural Resources Survey and Site Evaluations at the Stewart Subdivision Project, Moreno Valley, County of San Diego. Brian F. Smith and Associates, San Diego, California.

2000 An Archaeological/Historical Study for the French Valley Specific Plan/EIR, French Valley, County of Riverside. Brian F. Smith and Associates, San Diego, California.

2000 Results of an Archaeological Survey and the Evaluation of Cultural Resources at The TPM#24003–Lawson Valley Project. Brian F. Smith and Associates, San Diego, California.

2000 Archaeological Mitigation of Impacts to Prehistoric Site SDI-5326 at the Westview High School Project for the Poway Unified School District. Brian F. Smith and Associates, San Diego, California.

2000 An Archaeological/Historical Study for the Menifee Ranch Project. Brian F. Smith and Associates, San Diego, California.

2000 An Archaeological Survey and Evaluation of Cultural Resources for the Bernardo Mountain Project, Escondido, California. Brian F. Smith and Associates, San Diego, California.

2000 A Cultural Resources Impact Survey for the Nextel Black Mountain Road Project, San Diego, California. Brian F. Smith and Associates, San Diego, California.

2000 A Cultural Resources Impact Survey for the Rancho Vista Project, 740 Hilltop Drive, Chula Vista, California. Brian F. Smith and Associates, San Diego, California.

2000 A Cultural Resources Impact Survey for the Poway Creek Project, Poway, California. Brian F. Smith and Associates, San Diego, California.

2000 Cultural Resource Survey and Geotechnical Monitoring for the Mohyi Residence Project. Brian F. Smith and Associates, San Diego, California.

2000 Enhanced Cultural Resource Survey and Evaluation for the Prewitt/Schmucker/ Cavadias Project. Brian F. Smith and Associates, San Diego, California.

2000 Enhanced Cultural Resource Survey and Evaluation for the Lamont 5 Project. Brian F. Smith and Associates, San Diego, California.

2000 Salvage Excavations at Site SDM-W-95 (CA-SDI-211) for the Poinsettia Shores Santalina Development Project, Carlsbad, California. Brian F. Smith and Associates, San Diego, California.

2000 Enhanced Cultural Resource Survey and Evaluation for the Reiss Residence Project, La Jolla, California. Brian F. Smith and Associates, San Diego, California.

2000 Enhanced Cultural Resource Survey and Evaluation for the Tyrian 3 Project, La Jolla, California. Brian F. Smith and Associates, San Diego, California.

2000 A Report for an Archaeological Evaluation of Cultural Resources at the Otay Ranch Village Two SPA, Chula Vista, California. Brian F. Smith and Associates, San Diego, California.

2000 An Archaeological Evaluation of Cultural Resources for the Airway Truck Parking Project, Otay Mesa, County of San Diego. Brian F. Smith and Associates, San Diego, California.

2000 Results of an Archaeological Survey and Evaluation of a Resource for the Tin Can Hill Segment of the Immigration and Naturalization and Immigration Service Border Road, Fence, and Lighting Project, San Diego County, California. Brian F. Smith and Associates, San Diego, California.

1999 An Archaeological Survey of the Home Creek Village Project, 4600 Block of Home Avenue, San Diego, California. Brian F. Smith and Associates, San Diego, California.

1999 An Archaeological Survey for the Sgobassi Lot Split, San Diego County, California. Brian F. Smith and Associates, San Diego, California.

1999 An Evaluation of Cultural Resources at the Otay Ranch Village 11 Project. Brian F. Smith and Associates, San Diego, California.

1999 An Archaeological/Historical Survey and Evaluation of a Cultural Resource for The Osterkamp Development Project, Valley Center, California. Brian F. Smith and Associates, San Diego, California.

1999 An Archaeological Survey and Evaluation of Cultural Resources for the Palomar Christian Conference Center Project, Palomar Mountain, California. Brian F. Smith and Associates, San Diego, California.

1999 An Archaeological Survey and Evaluation of a Cultural Resource for the Proposed College Boulevard Alignment Project. Brian F. Smith and Associates, San Diego, California.

1999 Results of an Archaeological Evaluation for the Anthony's Pizza Acquisition Project in Ocean Beach, City of San Diego (with L. Pierson and B. Smith). Brian F. Smith and Associates, San Diego, California.

1996 An Archaeological Testing Program for the Scripps Poway Parkway East Project. Brian F. Smith and Associates, San Diego, California.

1995 Results of a Cultural Resources Study for the 4S Ranch. Brian F. Smith and Associates, San Diego, California.

1995 Results of an Archaeological Evaluation of Cultural Resources Within the Proposed Corridor for the San Elijo Water Reclamation System. Brian F. Smith and Associates, San Diego, California.

1994 Results of the Cultural Resources Mitigation Programs at Sites SDI-11,044/H and SDI-12,038 at the Salt Creek Ranch Project . Brian F. Smith and Associates, San Diego, California.

1993 Results of an Archaeological Survey and Evaluation of Cultural Resources at the Stallion Oaks Ranch Project. Brian F. Smith and Associates, San Diego, California.

1992 Results of an Archaeological Survey and the Evaluation of Cultural Resources at the Ely Lot Split Project. Brian F. Smith and Associates, San Diego, California.

1991 The Results of an Archaeological Study for the Walton Development Group Project. Brian F. Smith and Associates, San Diego, California.

Jennifer R.K. Stropes, MS, RPA

Project Archaeologist/Historian
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Education

Master of Science, Cultural Resource Management Archaeology **2016**

St. Cloud State University, St. Cloud, Minnesota

Bachelor of Arts, Anthropology **2004**

University of California, Santa Cruz

Specialized Education/Training

Archaeological Field School **2014**

Pimu Catalina Island Archaeology Project

Research Interests

California Coastal / Inland Archaeology

Zooarchaeology

Historic Structure Significance Eligibility

Historical Archaeology

Human Behavioral Ecology

Taphonomic Studies

Experience

Project Archaeologist / Historian **November 2006–Present**
Brian F. Smith and Associates, Inc.

Duties include report writing, editing and production; recordation and evaluation of historic resources; construction monitoring management; coordination of field survey and excavation crews; laboratory and office management. Currently conducts faunal, prehistoric, and historic laboratory analysis and has conducted such analysis for over 500 projects over the past 10 years. Knowledgeable in the most recent archaeological and paleontological monitoring requirements for all Southern California lead agencies, as well as Native American monitoring requirements.

UC Santa Cruz Monterey Bay Archaeology Archives Supervisor **December 2003–March 2004**
Santa Cruz, California

Supervising intern for archaeological collections housed at UC Santa Cruz. Supervised undergraduate interns and maintained curated archaeological materials recovered from the greater Monterey Bay region.

Faunal Analyst, Research Assistant **June 2003–December 2003**
University of California, Santa Cruz

Intern assisting in laboratory analysis and cataloging for faunal remains collected from CA-MNT-234. Analysis included detailed zoological identification and taphonomic analysis of prehistoric marine and terrestrial mammals, birds, and fish inhabiting the greater Monterey Bay region.

Archaeological Technician, Office Manager **January 2000-December 2001**
Archaeological Resource Management

Conducted construction monitoring, field survey, excavation, report editing, report production, monitoring coordination and office management.

Certifications

City of San Diego Certified Archaeological and Paleontological Monitor

40-Hour Hazardous Waste/Emergency Response OSHA 29 CFR 1910.120 (e)

Scholarly Works

Big Game, Small Game: A Comprehensive Analysis of Faunal Remains Recovered from CA-SDI-11,521, 2016, Master's thesis on file at St. Cloud University, St. Cloud, Minnesota.

Technical Reports

Buday, Tracy M., Jennifer R. **Kraft**, and Brian F. Smith
2014 *Mitigation Monitoring Report for the Park and G Project, City of San Diego.* Prepared for Oliver McMillan. Report on file at the California South Coastal Information Center.

Kennedy, George L., Todd A. Wirths and Jennifer R. **Kraft**
2014 *Negative Paleontological, Archaeological, and Native American Monitoring and Mitigation Report, 2303 Ocean Street Residences Project, City of Carlsbad, San Diego County, California (CT 05-12; CP 05-11; CDP 05-28).* Prepared for Zephyr Partners. Report on file at the California South Coastal Information Center.

2013 *Negative Paleontological, Archaeological, and Native American Monitoring and Mitigation Report, Tri-City Christian High School, 302 North Emerald Drive, Vista, San Diego County,*

California (APN 166-411-75). Prepared for Tri-City Christian School. Report on file at the California South Coastal Information Center.

Kraft, Jennifer R.

2012 *Cultural Resources Monitoring Report for the Pottery Court Project (TPM 36193) City of Lake Elsinore*. Prepared for BRIDGE Housing Corporation. Report on file at the California Eastern Information Center.

Kraft, Jennifer R., David K. Grabski, and Brian F. Smith

2014 *Phase I Cultural Resource Survey for the Amineh Project, City of San Diego.* Prepared for Nakhshab Development and Design. Report on file at the California South Coastal Information Center.

Kraft, Jennifer R. and Brian F. Smith

2016 *Cultural Resources Survey and Archaeological Test Plan for the 1492 K Street Project City of San Diego.* Prepared for Trestle Development, LLC. Report on file at the California South Coastal Information Center.

2016 *Focused Historic Structure Assessment for the Fredericka Manor Retirement Community City of Chula Vista, San Diego County, California APN 566-240-27.* Prepared for Front Porch Communities and Services – Fredericka Manor, LLC. Report on file at the City of Chula Vista Planning Department.

2016 *Historic Structure Assessment for 8585 La Mesa Boulevard City of La Mesa, San Diego County, California. APN 494-300-11.* Prepared for Siilvergate Development. Report on file at the City of La Mesa Planning Department.

2016 *Phase I Cultural Resource Survey for the 9036 La Jolla Shores Lane Project City of San Diego Project No. 471873 APN 344-030-20.* Prepared for Eliza and Stuart Stedman. Report on file at the California South Coastal Information Center.

2016 *Phase I Cultural Resources Survey for the Beacon Apartments Project City of San Diego Civic San Diego Development Permit #2016-19 APN 534-210-12.* Prepared for Wakeland Housing & Development Corporation. Report on file at the California South Coastal Information Center.

2016 *A Phase I Cultural Resources Study for the State/Columbia/Ash/A Block Project San Diego, California.* Prepared for Bomel San Diego Equities, LLC. Report on file at the California South Coastal Information Center.

2015 *Cultural Resource Monitoring Report for the Sewer and Water Group 687B Project, City of San Diego.* Prepared for Ortiz Corporation. Report on file at the California South Coastal Information Center.

2015 *Cultural Resource Testing Results for the Broadway and Pacific Project, City of San Diego.* Prepared for BOSA Development California, Inc. Report on file at the California South Coastal Information Center.

2015 *Cultural Resource Study for the Hatfield Plaza Project, Valley Center, San Diego County, California.* Prepared for JG Consulting & Engineering. Report on file at the California South Coastal Information Center.

2015 *Cultural Resources Study for the Hedrick Residence Project, Encinitas, San Diego County, California.* Prepared for WNC General Contractors, Inc. Report on file at the California South Coastal Information Center.

2015 *Historic Structure Assessment for the StorQuest Project, City of La Mesa, (APN 494-101-14-00)*. Prepared for Real Estate Development and Entitlement. Report on file at the City of La Mesa.

2015 *Mitigation Monitoring Report for the 1905 Spindrift Remodel Project, La Jolla, California.* Prepared for Brian Malk and Nancy Heitel. Report on file at the California South Coastal Information Center.

2015 *Mitigation Monitoring Report for the Cisterra Sempra Office Tower Project, City of San Diego.* Prepared for SDG-Left Field, LLC. Report on file at the California South Coastal Information Center.

2015 *A Phase I Cultural Resource Study for the Marlow Project, Poway, California.* Prepared for Peter Marlow. Report on file at the California South Coastal Information Center.

2015 *Phase I Cultural Resource Survey for the Paseo Grande Project, City of San Diego.* Prepared for Joe Gatto. Report on file at the California South Coastal Information Center.

2015 *Results of a Cultural Resources Testing Program for the 15th and Island Project City of San Diego.* Prepared for Lennar Multifamily Communities. Report on file at the City of San Diego Development Services Department.

2014 *Cultural Resource Monitoring Report for the ActivCare at Mission Bay Project, San Diego, California.* Prepared for ActivCare Living, Inc. Report on file at the California South Coastal Information Center.

2014 *Cultural Resource Monitoring Report for the Cesar Chavez Community College Project.* Prepared for San Diego Community College District. Report on file at the California South Coastal Information Center.

2014 *Cultural Resource Monitoring Report for the Grantville Trunk Sewer Project, City of San Diego.* Prepared for Cass Construction, Inc. Report on file at the California South Coastal Information Center.

2014 *Cultural Resource Monitoring Report for the Pacific Beach Row Homes Project, San Diego, California.* Prepared for Armstrong Builders, Inc. Report on file at the California South Coastal Information Center.

2014 *Cultural Resource Monitoring Report for the Poway Lowe's Project, City of Poway.* Prepared for CSI Construction Company. Report on file at the California South Coastal Information Center.

2014 *Cultural Resource Monitoring Report for the Sewer and Water Group 761 Project, City of San Diego.* Prepared for Burtech Pipeline. Report on file at the California South Coastal Information Center.

2014 *Cultural Resource Monitoring Report for the Sewer and Water Group 770 Project (Part of Group 3014), City of San Diego.* Prepared for Ortiz Corporation. Report on file at the California South Coastal Information Center.

2014 *Cultural Resource Monitoring Report for the Sewer and Water Group 788 Project, City of San Diego.* Prepared for Ortiz Corporation. Report on file at the California South Coastal Information Center.

2014 *Historic Structure Assessment, 11950 El Hermano Road, Riverside County.* Prepared for Forestar Toscana, LLC. Report on file at the California Eastern Information Center.

2014 *Historic Structure Assessment, 161 West San Ysidro Boulevard, San Diego, California (Project No. 342196; APN 666-030-09)*. Prepared for Blue Key Realty. Report on file at the California South Coastal Information Center.

2014 *Historic Structure Assessment for 8055 La Mesa Boulevard, City of La Mesa (APN 470-582-11-00).* Prepared for Lee Machado. Report on file at the City of La Mesa.

2014 *Historic Structure Inventory and Assessment Program for the Watson Corporate Center, San Bernardino County, California.* Prepared for Watson Land Company. Report on file at the San Bernardino Archaeological Information Center.

2014 *Mitigation Monitoring Report for the Celadon (9th and Broadway) Project.* Prepared for BRIDGE Housing Corporation. Report on file at the California South Coastal Information Center.

2014 *Mitigation Monitoring Report for the Comm 22 Project, City of San Diego.* Prepared for BRIDGE Housing Corporation. Report on file at the California South Coastal Information Center.

2014 *Mitigation Monitoring Report for the Pinnacle 15th & Island Project, City of San Diego.* Prepared for Pinnacle International Development, Inc. Report on file at the California South Coastal Information Center.

2014 *A Phase I and II Cultural Resource Study for the Perris Residential Project, Perris, California.* Prepared for Groundwurk, Inc. Report on file at the California Eastern Information Center.

2014 *Phase I Cultural Resource Survey for the Siempre Viva Warehouse Project, City of San Diego.* Prepared for Terrazas Construction. Report on file at the California South Coastal Information Center.

2014 *Phase I Cultural Resource Survey for the Silver Street Village Homes Project, City of San Diego.* Prepared for EHOF La Jolla, LLC. Report on file at the California South Coastal Information Center.

2014 *Phase I Cultural Resources Study for the 915 Grape Street Project.* Prepared for Bay View SD, LLC. Report on file at the California South Coastal Information Center.

2014 *Phase I Cultural Resource Study for the Altman Residence Project, 9696 La Jolla Farms Road, La Jolla, California 92037.* Prepared for Steve Altman. Report on file at the California South Coastal Information Center.

2014 *Phase I Cultural Resources Survey for the Clay Street Parcel Project, City of Jurupa Valley, County of Riverside.* Prepared for CV Communities, LLC. Report on file at the California Eastern Information Center.

2014 *Phase I Cultural Resources Survey for the Ecos Diamond Valley Project, Community of Winchester, County of Riverside.* Prepared for Ecos Energy, LLC. Report on file at the California Eastern Information Center.

2014 *Phase I Cultural Resources Survey for the Highland 44 Project.* Prepared for 29300 Baseline Partners, LLC. Report on file at the San Bernardino Archaeological Information Center.

2014 *A Phase I Cultural Resources Survey of the Palm Creek Ranch Project, Thousand Palms, Riverside County, California (APNs 650-230-002, 650-310-001, and 650-310-002).* Prepared for Palm Creek Ranch, LLC. Report on file at the California Eastern Information Center.

2013 *Archaeological Monitoring Report for the Webster Residence, La Jolla, California.* Prepared for KW Building and Development. Report on file at the California South Coastal Information Center.

2013 *Cultural Resource Monitoring Report for the Alvarado Trunk Sewer Phase III Project, City of San Diego.* Prepared for Ortiz Corporation General Engineering Contractors. Report on file at the California South Coastal Information Center.

2013 *Cultural Resource Monitoring Report for the Alvarado Trunk Sewer Phase IIIA Project, City of San Diego.* Prepared for TC Construction, Inc. Report on file at the California South Coastal Information Center.

2013 *Cultural Resource Monitoring Report for the Coral Mountain Apartments Project, City of La Quinta, California*. Prepared for Coral Mountain Apartments, LP. Report on file at the California Eastern Information Center.

2013 *Cultural Resource Monitoring Report for the F Street Emergency Water Main Replacement Project, City of San Diego*. Prepared for Orion Construction. Report on file at the California South Coastal Information Center.

2013 *Cultural Resource Monitoring Report for the Harbor Drive Trunk Sewer Project, City of San Diego*. Prepared for Burtech Pipeline. Report on file at the California South Coastal Information Center.

2013 *Cultural Resource Monitoring Report for the Hyde Residence.* Prepared for Dr. Paul Hyde. Report on file at the California South Coastal Information Center.

2013 *Cultural Resource Monitoring Report for the Juniper Street Sidewalk Project, City of San Diego*. Prepared for Palm Engineering Construction Company, Inc. Report on file at the California South Coastal Information Center.

2013 *Cultural Resource Monitoring Report for the Kates Residence Project.* Prepared for Brad and Shannon Kates. Report on file at the California South Coastal Information Center.

2013 *Cultural Resource Monitoring Report for the Pump Station 84 Upgrade and Pump Station 62 Abandonment Project.* Prepared for TC Construction, Inc. Report on file at the California South Coastal Information Center.

2013 *Cultural Resource Monitoring Report for the Sewer and Water Group 781 Project*. Prepared for TC Construction, Inc. Report on file at the California South Coastal Information Center.

2013 *Cultural Resource Monitoring Report for the Woolf Residence Project*. Prepared for A.J. Woolf Family Trust. Report on file at the California South Coastal Information Center.

2013 *Cultural Resources Study of the Fairway Drive Project.* Prepared for CV Communities, LLC. Report on file at the California Eastern Information Center.

2013 *Cultural Resource Monitoring Report for the Old Town Community Church Project, 2444 Congress Street, San Diego, California 92110.* Prepared for Soltek Pacific, Inc. Report on file at the California South Coastal Information Center.

2013 *Historic Structure Assessment, 2603 Dove Street, San Diego, California (APN) 452-674-32).* Prepared for Barzal and Scotti Real Estate Corporation. Report on file at the California South Coastal Information Center.

2013 *Historic Structure Assessment at the Western Christian School, 3105 Padua Avenue, Claremont, California 91711 (APN 8671-005-053).* Prepared for Western Christian School. Report on file at the City of Claremont.

2013 *Mitigation Monitoring Report for the 7th and F Street Parking Project, City of San Diego*. Prepared for DZI Construction. Report on file at the California South Coastal Information Center.

2013 *Mitigation Monitoring Report for the 1919 Spindrift Drive Project*. Prepared for V.J. and Uma Joshi. Report on file at the California South Coastal Information Center.

2013 *Mitigation Monitoring Report for the Knight Residence Project, 7970 Roseland Avenue, La Jolla, California*. Prepared for Mr. Dennis Knight. Report on file at the California South Coastal Information Center.

2013 *Mitigation Monitoring Report for the Sewer Group 799-750 Project.* Prepared for Burtech Pipeline. Report on file at the California South Coastal Information Center.

2013 *Negative Cultural Resource Monitoring Report for the Citywide Pump Station Upgrades Group II Project.* Prepared for Ortiz Corporation General Engineering Contractors. Report on file at the California South Coastal Information Center.

2013 *Negative Cultural Resource Monitoring Report for the Citywide Pump Station Upgrades Group III Project, City of San Diego*. Prepared for TC Construction, Inc. Report on file at the California South Coastal Information Center.

2013 *Phase I Cultural Resource Study for the 3364 Randy Lane Project, Chula Vista, California*. Prepared for H&M Construction. Report on file at the California South Coastal Information Center.

2013 *Phase I Cultural Resources Survey for the Ecos Nuevo Project, Community of Nuevo, County of Riverside*. Prepared for Ecos Energy, LLC. Report on file at the California Eastern Information Center.

2012 *Cultural Resource Monitoring Report for the Sewer and Water Group 754 Project, City of San Diego (Project No. 177711/187301)*. Prepared for S.C. Valley Engineering, Inc. Report on file at the California South Coastal Information Center

2012 *Cultural Resource Monitoring Report for the Sewer Group 714 Project.* Prepared for Burtech Pipeline. Report on file at the California South Coastal Information Center.

2012 *Cultural Resource Monitoring Report for the Sewer and Water Group 780 Project*. Prepared for Burtech Pipeline. Report on file at the California South Coastal Information Center.

2012 *Mitigation Monitoring of the 47th Street Warehouse Project, San Diego, California.* Prepared for Aardema Development. Report on file at the California South Coastal Information Center.

2012 *Mitigation Monitoring Report for the Florida Street Apartments Project (The Kalos Project).* Prepared for Florida Street Housing Associates. Report on file at the California South Coastal Information Center.

2012 *Mitigation Monitoring Report for the Pacific Highway Trunk Sewer Project*. Prepared for HPS Mechanical. Report on file at the California South Coastal Information Center.

2011 *Phase I Cultural Resource Study for the Wesley Palms Retirement Community Project, San Diego, California.* Prepared for Front Porch Development Company. Report on file at the California South Coastal Information Center.

Kraft, Jennifer R. and Tracy A. Stropes

2013 *Phase I Cultural Resources Survey for the Orange Street Project.* Prepared for Mike Lesle. Report on file at the California Eastern Information Center.

2012 *Mitigation Monitoring Report for the 13th & Market Project*. Prepared for The Hanover Company. Report on file at the California South Coastal Information Center.

2012 *Mitigation Monitoring Report for the T-Mobile West, LLC Telecommunications Candidate SD02867C (Presidio Park).* Prepared for Michael Brandmann Associates. Report on file at the California South Coastal Information Center.

Kraft, Jennifer R., Tracy A. Stropes, and Brian F. Smith

2013 *Mitigation Monitoring Report for the Ariel Suites Project*. Prepared for Ariel Suites, LP. Report on file at the California South Coastal Information Center.

Smith, Brian F., Claire M. Allen, and Jennifer R. **Kraft**

2015 *A Phase I and II Cultural Resource Report for the Lake Ranch Project, TR 36730, Riverside County, California.* Prepared for Christopher Development Group. Report on file at the California Eastern Information Center.

Smith, Brian F., Claire M. Allen, Mary M. Lenich, and Jennifer R. **Kraft**

2014 *Phase I and Phase II Cultural Resource Assessment for the Citrus Heights II Project, TTM 36475, Riverside County, California*. Prepared for CV Communities, LLC. Report on file at the California Eastern Information Center.

Smith, Brian F. and Jennifer R. **Kraft**

2016 *Archaeological Test Plan for the Broadway Block Project City of San Diego Project No. 492554.* Prepared for BOSA Development California, Inc. Report on file at the City of San Diego Development Services Department.

2016 *Cultural Resource Survey and Archaeological Test Plan for the Maker's Quarter – Block D Project, City of San Diego.* Prepared for L2HP, LLC. Report on file at the City of San Diego Development Services Department.

2016 *Cultural Resource Testing Program for the 1919 Pacific Highway Project City of San Diego City Preliminary Review PTS #451689 Grading and Shoring PTS #465292*. Prepared for Wood Partners. Report on file at the City of San Diego Development Services Department.

2016 *Historical Resource Research Report for the 2314 Rue Adriane Building, San Diego, California Project No. 460562.* Prepared for the Brown Studio. Report on file at the City of San Diego Development Services Department.

2016 *Historical Resource Research Report for the 4921 Voltaire Street Building, San Diego, California Project No. 471161.* Prepared for Sean Gogarty. Report on file at the City of San Diego Development Services Department.

2016 *Historical Resource Research Report for the 5147 Hilltop Drive Building, San Diego, California Project No. 451707.* Prepared for JORGA Home Design. Report on file at the City of San Diego Development Services Department.

2016 *Historical Resource Research Report for the Midway Drive Postal Service Processing and Distribution Center 2535 Midway Drive San Diego, California 92138 Project No. 507152.* Prepared for Steelwave, LLC. Report on file at the City of San Diego Development Services Department.

2016 *Historic Resource Technical Report for 9036 La Jolla Shores Lane La Jolla, California Project No. 471873.* Prepared for Eliza and Stuart Stedman. Report on file at the City of San Diego Development Services Department.

2015 *Cultural Resource Mitigation Monitoring Program for the Urban Discovery Academy Project.* Prepared for Davis Reed Construction, Inc. Report on file at the City of San Diego Development Services Department.

2015 *Cultural Resource Survey and Archaeological Test Plan for the 520 West Ash Street Project, City of San Diego.* Prepared for Lennar Multifamily Communities. Report on file at the City of San Diego Development Services Department.

2015 *Cultural Resource Survey and Archaeological Test Plan for the 1919 Pacific Highway Project City of San Diego City Preliminary Review PTS #451689 Grading and Shoring PTS #465292*. Prepared for Wood Partners. Report on file at the City of San Diego Development Services Department.

2015 *Cultural Resource Survey and Archaeological Test Plan for the Bayside Fire Station Project, City of San Diego.* Prepared for Civic San Diego. Report on file at the City of San Diego Development Services Department.

2015 *Cultural Resource Survey and Archaeological Test Plan for the Kettner and Ash Project, City of San Diego.* Prepared for BOSA Development California, Inc. Report on file at the City of San Diego Development Services Department.

2015 *Cultural Resource Survey and Archaeological Test Plan for the PRIME Project.* Prepared for InDev, Inc. Report on file at the City of San Diego Development Services Department.

2015 *Cultural Resource Testing Program for the BOSA Lot 1 Project, City of San Diego.* Prepared for BOSA Development California, Inc. Report on file at the City of San Diego Development Services Department.

2015 *Historical Resource Research Report for the 921 Muirlands Drive Building, San Diego, California 92037.* Prepared for Stephen Karas. Report on file at the California South Coastal Information Center.

2015 *Historical Resource Research Report for the 1311 Sutter Street Building, San Diego, California 92103.* Prepared for A.K. Smith. Report on file at the California South Coastal Information Center.

2015 *Historical Resource Research Report for 16929 West Bernardo Drive, San Diego, California.* Prepared for Rancho Bernardo LHP, LLC. Report on file at the City of San Diego Development Services Department.

2015 *Historical Resource Research Report for the 2002-2004 El Cajon Boulevard Building, San Diego, California 92014.* Prepared for T.R. Hale, LLC. Report on file at the California South Coastal Information Center.

2015 *Historical Resource Research Report for the 4319-4321 Florida Street Building, San Diego, California 92104.* Prepared for T.R. Hale, LLC. Report on file at the California South Coastal Information Center.

2015 *Historic Resource Technical Report for 726 Jersey Court San Diego, California Project No. 455127.* Prepared for Chad Irwin. Report on file at the California South Coastal Information Center.

2015 *Historic Resource Technical Report for 1111 Golden Gate Drive San Diego, California.* Prepared for Alexis and Shawna Volen. Report on file at the California South Coastal Information Center.

2015 *Islenair Historic Sidewalk Stamp Program for Sewer and Water Group 3014, City of San Diego*. Prepared for Ortiz Corporation. Report on file at the California South Coastal Information Center.

2015 *A Negative Cultural Resources Survey Report for the Bonita 14 Project, San Diego County, California.* Prepared for Southwest Management Company. Report on file at the California South Coastal Information Center.

2015 *A Phase I and II Cultural Resources Assessment for the Decker Parcels II Project, Planning Case No. 36962, Riverside County, California.* Prepared for Trammell Crow Southern California Development, Inc. Report on file at the California Eastern Information Center.

2015 *A Phase I Cultural Resources Assessment for the Idyllwild Community Center Project, Conditional Use Permit No. 3673-RI, Riverside County, California.* Prepared for San Jacinto Mountain Community Center. Report on file at the California Eastern Information Center.

2014 *Archaeological Test Plan for the Atmosphere Project, City of San Diego.* Prepared for Wakeland Housing and Development Corporation. Report on file at the City of San Diego Development Services Department.

2014 *Archaeological Test Plan for the Ballpark Village Project, San Diego, California.* Prepared for Ballpark Village, LLC. Report on file at the City of San Diego Development Services Department.

2014 *Cultural Resource Survey and Archaeological Test Plan for the Idea1 Project, City of San Diego.* Prepared for Lowe Enterprises Real Estate Group. Report on file at the City of San Diego Development Services Department.

2014 *Cultural Resource Survey and Archaeological Test Plan for the Lennar 15th and Island Project, City of San Diego.* Prepared for Lennar Multifamily Communities. Report on file at the City of San Diego Development Services Department.

2014 *Historical Resource Research Report for 2850 Sixth Avenue, San Diego, California (Project No. 392445).* Prepared for Zephyr Partners – RE, LLC. Report on file at the City of San Diego Development Services Department.

2014 *Phase I Cultural Resource Survey for the Hotel Felicita Project, City of Escondido, California (APNs 238-102-41 and -45).* Prepared for Blue Light Capital Corporation. Report on file at the California South Coastal Information Center.

2013 *Cultural Resources Study for the Los Peñasquitos Adobe Drainage Project.* Prepared for HELIX Environmental Planning, Inc. Report on file at the California South Coastal Information Center.

2013 *Cultural Resources Study for the Rancho Peñasquitos Adobe Drainage MND Project, San Diego County, California (CSD-04.03).* Prepared for HELIX Environmental Planning, Inc. Report on file at the California South Coastal Information Center.

Smith, Brian F., Jennifer R. **Kraft**, and Mary M. Lenich

2015 *A Phase I and II Cultural Resources Assessment for the Decker Parcels I Project, Planning Case No. 36950, Riverside County, California.* Prepared for Trammell Crow Southern California Development, Inc. Report on file at the California Eastern Information Center.

Smith, Brian F. and Jennifer R.K. **Stropes**

2016 *Historical Resource Research Report for the 1852-1866 Bacon Street Buildings San Diego, California 92107.* Prepared for Cartega International. Report on file at the City of San Diego Development Services Department.

2016 *Historical Resource Research Report for 2001 Fourth Avenue, San Diego, California Project No. 523694.* Prepared for H.G. Fenton Company. Report on file at the City of San Diego Development Services Department.

Smith, Brian F., Tracy A. Stropes, Tracy M. Buday, and Jennifer R. **Kraft**

2015 *Mitigation Monitoring and Reporting Program for the 1900 Spindrift Drive – Cabana and Landscape Improvements Project, La Jolla, California*. Prepared for Darwin Deason. Report on file at the California South Coastal Information Center.

2015 *Mitigation Monitoring and Reporting Program for the 1912 Spindrift Drive – Landscape Improvements Project, La Jolla, California.* Prepared for Darwin Deason. Report on file at the California South Coastal Information Center.

Stropes, J.R.K. and Brian F. Smith

2016 *Cultural Resource Monitoring Report for the Sewer and Water Group 758 Project City of San Diego Project No. 230024 Sewer WBS No. B-00365; Water WBS No. B-00074.* Prepare for Burtech Pipeline, Inc. Report on file at the California South Coastal Information Center.

2016 *Phase I Cultural Resource Survey for the 2499 Pacific Highway Project City of San Diego CCDP/CCPDP/CDP/CUP No. 2016-30 APN 533-021-01.* Prepared for Gary Mansour. Report on file at the California South Coastal Information Center.

2016 *Results of a Cultural Resource Testing Program for the Maker's Quarter – Block D Project, City of San Diego.* Prepared for L2HP, LLC. Report on file at the California South Coastal Information Center.

Stropes, J.R.K., Tracy A. Stropes, and Brian F. Smith

2016 *Results of the Mitigation Monitoring Program for the Amitai Residence Project 2514 Ellentown Road La Jolla, California 92037 Project No. 388734.* Prepared for David Amitai. Report on file at the California South Coastal Information Center.

Stropes, Tracy A., Jennifer R. **Kraft**, and Brian F. Smith

2016 *Cultural Resources Study for the Ocean Breeze Ranch Project, Bonsall, San Diego County, California (PDS2015-MPA-15-011).* Prepared for Ocean Breeze Ranch, LLC. Report on file at the California South Coastal Information Center.

Stropes, Tracy A., Brian F. Smith, and Jennifer R. **Kraft**

2015 *Results of the Mitigation Monitoring Program for the Keating Residence Project, La Jolla, California.* Prepared for Brian Keating. Report on file at the California South Coastal Information Center.

Contributing Author /Analyst

2015 Faunal Analysis and Report Section for *Cultural Resource Data Recovery and Mitigation Monitoring Program for Site SDI-10,237 Locus F, Everly Subdivision Project, El Cajon, California* by Tracy A. Stropes and Brian F. Smith. Prepared for Shea Homes. Report on file at the California South Coastal Information Center.

2011 Faunal Analysis and Report Section for *A Cultural Resource Data Recovery Program for SDI-4606 Locus B for St. Gabriel's Catholic Church, Poway, California* by Brian F. Smith and Tracy A. Stropes. Prepared for St. Gabriel's Catholic Church. Report on file at the California South Coastal Information Center.

2010 Faunal Analysis and Report Section for *An Archaeological Study for the 1912 Spindrift Drive Project, La Jolla, California* by Brian F. Smith and Tracy A. Stropes. Prepared for Island Architects. Report on file at the California South Coastal Information Center.

2010 Faunal Analysis and Report Section for *Results of a Cultural Mitigation and Monitoring Program for Robertson Ranch: Archaic and Late Prehistoric Camps near the Agua Hedionda Lagoon* by Brian F. Smith. Prepared for McMillan Land Development. Report on file at the California South Coastal Information Center.

2009 Faunal Identification for "An Earlier Extirpation of Fur Seals in the Monterey Bay Region: Recent Findings and Social Implications" by Diane Gifford-Gonzalez and Charlotte K. Sunseri. *Proceedings of the Society for California Archaeology, Vol. 21, 2009*

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Otay Canyon Ranch/Lumina
San Diego, California

June 30, 2017

Prepared for:

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June 30, 2017

CR Otay Canyon Associates
c/o ColRich
444 W. Beech Street, Ste. 300
San Diego, CA 92101

Subject: **Otay Canyon Ranch/Lumina**
San Diego, California

To Whom It May Concern:

C Young Associates (CYA) has performed a Phase I Environmental Site Assessment (ESA), in conformance with the scope and limitations of American Society for Testing and Materials Practice (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM Designation E1527-13 and Title 40 of the Code of Federal Regulations (CFR) Part 312, of the above-referenced site. This Phase I ESA included public environmental agency and historical record reviews, prior report reviews, interviews, site observations, and report preparation. This report includes CYA's findings, conclusions, and supporting documentation.

We appreciate the opportunity to be of service to you on this project. If you should have any questions regarding this report, or if we can be of further assistance, please contact us at (858) 945-7029.

Sincerely,

C YOUNG ASSOCIATES

Colin P. Young, CIH
Principal

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Executive Summary

At the request of CR Otay Canyon Associates, C Young Associates (CYA) conducted a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of American Society for Testing and Materials (ASTM) Standard Practice E1527-13 and Title 40 of the Code of Federal Regulations (CFR) Part 312, at the property referenced as Lumina situated generally north of Siempre Viva Road, south of Otay Mesa Road and Route 905 and west of Cactus Road in the community of Otay Mesa, City of San Diego, California.

The findings of this ESA revealed the following:

- The Site consists of twelve legal parcels.
- The Site and its adjacent/nearby properties are comprised primarily of vacant land, agricultural land and commercial development, with some scattered residences.
- Municipal potable water and sanitary sewer services in the area are provided by the Otay Water District. There are no known water supply wells present at the Site. However, it is likely that septic systems are present on-Site that service some of the habitable structures that are present.
- The area surrounding the Site consists primarily of public roadways and residential and commercial properties. None of the adjoining properties were observed to be of significant environmental concern to the Site based on CYA's visual inspection from public right-of-ways.
- No environmentally related liens, deed restrictions or activity and use limitations pertaining to the Site were noted in either the current title report for the Site or during research completed with the County of San Diego Tax Assessor. In addition, the client is unaware of such encumbrances recorded against the Site.
- The client reportedly has no specialized knowledge pertinent to potential "recognized environmental conditions" at the Site.
- A review of numerous reports related to parcels comprising the site revealed the following:
    - <u>Kuta ~10 acre parcel (APN 646-100-21)</u>-The presence of legally applied organochlorine pesticides (OCPs) in topsoil across much of the parcel due to historic agricultural activities on the parcel and the presence of trash and debris in the canyon along the northern perimeter of the parcel.
    - <u>Mascari ~10 acre parcel (APN 646-100-38)</u>-The presence of heavy-ended hydrocarbon stained soil (estimated to total 40 cubic yards) in proximity to an above-ground storage tank (AST) and a hazardous materials storage area.
    - <u>Martinez ~40 acre portion of the Site comprising APNs 546-100-17, -18 and -20</u>-The presence of legally applied OCPs in topsoil across much of the parcel due to historic agricultural activities on the parcels and artificial fill/construction debris with varying concentrations of lead and heavy-ended hydrocarbons in the canyon along the southwestern portion of the parcels.

- o Martinez/Kay Mark ~73 acre parcels comprising APNs 646-100-17, -18, -20, -21, -38 and -71- The presence of legally applied OCPs in topsoil across much of the parcels due to historic agricultural activities on the parcels, limited indicators of hydrocarbon impacts in fill soil within a former reservoir area at the -17 parcel and indicators of lead, arsenic and hydrocarbon impacts within a former reservoir area that is partially situated on the -20 parcel.
- o Sesi ~15 acre parcel comprising APN 646-100-76- The presence of legally applied OCPs in topsoil across much of the parcels due to historic agricultural activities on the parcels and indicators of lead, arsenic and hydrocarbon impacts within a former reservoir area that is partially situated on the parcel.

- The County of San Diego DEH concluded that adequate soil assessment had been completed on the parcels comprising the site and that the known impacts (referenced above) could be managed with the implementation of a Soil Management Plan. A Plan has since been prepared by CYA and approved by the DEH and will be implemented during site development activities.
- A review of available records revealed that only the subject VAP case file is open for the Site. There are no outstanding environmental regulatory actions related to the Site. The records also indicate that adjoining and nearby properties are not considered to be significant environmental concerns to the Site.
- A review of physical setting sources (e.g., historical topography, hydrology, geology, etc.) did not reveal information that would imply a potential for environmental implications at the site.
- A review of historical information sources (e.g., historical aerial photos, fire insurance maps, directories, etc.) did not reveal information that would imply a potential for environmental implications at the site except for those indicating the use of the site for agricultural purposes, as referenced above.
- A reconnaissance of the site revealed the features and conditions referenced in prior assessment reports for portions of the Site. No additional conditions indicative of a potential for a “recognized environmental condition” at the Site were revealed.

This assessment revealed two “recognized environmental conditions” and one development related constraint as described below and that do not require additional assessment or action at this time.

- The debris filled canyon in the southwestern portion of the Site (APNs 646-100-17-00 and -71-00) and the former reservoir areas at the -17, -20 and -76 parcels have been documented to contain some degree of impacted soil. In addition, areas of petroleum hydrocarbon stained soil were previously noted at the 646-100-20 and -38-00 parcels in areas of ASTs and drums. While the referenced impacted materials do not represent a significant risk to human health and the environment, such materials (if/when encountered) will be properly managed during future Site construction activities. The proper handling of such materials will be completed in accordance with the DEH-approved SMP for the Site.
- The Site has been historically used for agricultural purposes and the presence of OCPs in soil at the Site has been well documented. However, no information has

been revealed that would lead CYA to believe that an accidental spill or release of pesticide products has occurred at the Site (e.g., stressed vegetation, evidence of the storage of OCP based chemical products, etc.). As such, the historical agricultural use of the Site is not considered to be a “recognized environmental condition” in connection with the Site. However, such soil is considered to be a development constraint in connection with the Site that must be properly managed in accordance with the DEH-approved SMP for the Site.

1.0 Introduction

1.1 Purpose

The purpose of this Phase I ESA is to provide a professional opinion on the presence of *recognized environmental conditions* and other suspect environmental conditions in connection with the Site, as they existed on the date of the site inspection, and to recommend whether further investigation is required. ASTM E1527-13*, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (hereinafter referred to as the "ASTM Standard"), specifies minimum requirements for conducting a Phase I ESA of a parcel of commercial real estate with respect to the range of contaminants pertinent to the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), in addition to petroleum products. As such, this Phase I ESA is intended to satisfy one of the threshold criteria for satisfying the landowner liability protections to CERCLA liability, assuming compliance with other elements of the defense. In other words, this Phase I ESA represents one of the practices that constitute "all appropriate inquiry" into the previous ownership and uses of the property consistent with good commercial or customary practice, as defined in 42 USC Section 9601(35)(B) and 40 CFR Part 312.

The goal of the process is to identify "recognized environmental conditions," which are defined by the ASTM Standard as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment; 2) under conditions indicative of a release to the environment, or; 3) under conditions that pose a material threat of a future release to the environment. The term "recognized environmental condition" includes hazardous substances or petroleum products even under conditions in compliance with laws. In addition, the term also included *historical recognized environmental conditions* and *controlled recognized environmental conditions*. A "historical recognized environmental condition" is defined by the ASTM Standard as "a past release of hazardous substances or petroleum products that has occurred in connection with a property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)." A "controlled recognized environmental condition" is defined by the ASTM Standard as "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)." The term "recognized environmental condition" 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.

The term "environment" is defined in CERCLA 42 USC 9601(8) as "(A) the navigable waters, the water of the contiguous zone, and the ocean waters of which the natural resources are under the exclusive management authority of the United States under the Magnuson-Stevens Fishery Conservation and Management Act", and "(B) any other surface water, ground water, drinking water supply, land surface or subsurface strata, or ambient air within the United States or under the jurisdiction of the United States."

The term “release” means any "spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing any hazardous substance or pollutant or contaminant)", but excludes "(A) any release which results in exposure to persons solely within a workplace, with respect to a claim which such persons may assert against the employer of such persons, (B) emissions from the engine exhaust of a motor vehicle, rolling stock, aircraft, vessel, or pipeline pumping station engine, (C) release of source, byproduct, or special nuclear material from a nuclear incident, as those terms are defined in the Atomic Energy Act of 1954 [42 U.S.C. 2011 et seq.], if such release is subject to requirements with respect to financial protection established by the Nuclear Regulatory Commission under section 170 of such Act [42 U.S.C. 2210], or, for the purposes of 42 USC 9604 or any other response action, any release of source byproduct, or special nuclear material from any processing site designated under section 7912(a)(1) or 7942(a) of this title, and (D) the normal application of fertilizer."

1.2 Detailed Scope of Services

This Phase I ESA was conducted in accordance with the above-referenced ASTM Standard, 40 CFR Part 312 and CYA’s Agreement by and between CYA and CR Otay Canyon Associates. The following services were provided for this assessment:

- A search for environmental liens recorded against the Site.
- An evaluation of standard environmental record sources contained within Federal, State and local environmental databases within specific search distances.
- An evaluation of additional environmental record sources obtained from local regulatory departments/agencies.
- A qualitative evaluation of the physical characteristics of the Site through a review of published topographic, geologic, and hydrogeologic maps; published groundwater data; and area observations to characterize surface water flow in the Site area.
- An evaluation of past Site and adjacent/nearby property uses through a review of historical resources including aerial photographs, topographic maps and city directories.
- A physical inspection of the Site (interior and exterior) conducted to search for conditions indicative of potential environmental concerns including underground storage tanks (USTs), aboveground storage tanks (ASTs), associated tank piping; stained soil or pavement, equipment that may contain or have historically

contained polychlorinated biphenyls (PCBs), and other potential environmental concerns as defined in the ASTM Standard.

- A physical assessment of indications of past uses and visual observations of adjacent and surrounding properties (from curbside or public spaces) to assess potential impacts to the Site.
- Interviews completed with the client, the Site owner(s) and/or local regulatory officials.
- The preparation of this Phase I ESA report, which includes the findings of the assessment, our opinion (i.e., conclusions) regarding their respective levels of significance, and recommendations, as appropriate.

1.3 Significant Assumptions

This Phase I ESA was conducted in accordance with the scope and terms referenced above. No other warranty, express or implied, is made by CYA. CYA's evaluations, analyses, and opinions should not be taken as representations regarding subsurface conditions or the actual value of the Site. Subsurface conditions may differ from the conditions implied by the surficial observations and the data resources reviewed, and can only be reliably evaluated through intrusive techniques.

Documentation and data provided by CR Otay Canyon Associates, designated representatives of CR Otay Canyon Associates, other interested third parties, or from the public domain, and referred to in the preparation of this assessment, are assumed to be complete and correct and have been used and referenced with the understanding that CYA assumes no responsibility or liability for their accuracy. CYA's conclusions are based upon such information and documentation and on our observations of Site conditions, as they existed on the date of the site inspection. Because Site conditions may change significantly over a short period of time and additional data may become available, data reported and conclusions drawn in this report are limited to current conditions and should be considered less reliable with passing time.

1.4 Limitations and Exceptions

Reasonable efforts have been made during this assessment to uncover evidence of USTs, ASTs, ancillary equipment associated with such tanks, and other subsurface structures. "Reasonable efforts" are limited to information gained from visual observation of unobstructed areas, recorded database information held in public record, and available information gathered from interviews. Such methods may not identify subsurface equipment that may have been hidden from view due to paving, construction or debris pile storage, or incorrect information from sources.

This investigation was not an environmental compliance audit. While some observations and discussion in this report may address conditions and/or operations that may be regulated, the regulatory compliance of those conditions and/or operations is outside the scope of this assessment. Nothing in this report constitutes a legal opinion or legal

advice. For information regarding specific individual or organizational liability, CYA recommends consultation with independent legal counsel.

According to 40 CFR Part 312, *Standards and Practices for All Appropriate Inquiry: Final Rule*, CERCLA liability rests with the owner or operator of a property and not with an environmental professional hired by the prospective landowner and who is not involved with the ownership or operation of the property. This report meets the requirements set forth in 40 CFR Part 312 *Standards and Practices for All Appropriate Inquiries; Final Rule*. However, in order to qualify for certain landowner liability protections under CERCLA, "Bona Fide Prospective Purchasers, Contiguous Property Owners, and/or Innocent Landowners" must meet additional requirements of CERCLA (42 U.S.C. 9601 (35)(B)).

This Phase I ESA does not address non-scope ASTM considerations including radon, asbestos, lead in paint or drinking water, wetlands, protected environments and habitat, industrial hygiene concerns, indoor air quality (unrelated to releases of hazardous substances or petroleum products into the environment) and high voltage power lines.

1.5 Special Terms and Conditions

No special terms and conditions between CYA and CR Otay Canyon Associates pertinent to the findings of this Phase I ESA or methodology used to complete this assessment are noted. In addition, CYA does not have a financial interest in the site.

1.6 User Reliance

This report was prepared for the sole and exclusive use of CR Otay Canyon Associates and is not for the use or benefit of, nor may it be relied upon by any other person or entity for any purpose without the advance written consent of CYA and CR Otay Canyon Associates. CYA makes no representation to any third party except that it has used the degree of care and skill ordinarily exercised by a reasonably prudent qualified environmental professional in the same community and in the same time frame given the same or similar facts and circumstances. No other use or disclosure is intended or authorized by CYA. In the preparation of this Phase I ESA, CYA has used the degree of care and skill ordinarily exercised by a reasonably prudent environmental professional in the same community and in the same time frame given the same or similar facts and circumstances. No other warranties are made, express or implied.

2.0 Site Description

2.1 Location and Legal Description

The Site is a reported 93.05 acres and is situated generally north of Siempre Viva Road, south of Otay Mesa Road and Route 905 and west of Cactus Road in the community of Otay Mesa, City of San Diego, California. The Site consists of twelve legal parcels. The table below includes the Assessor's Parcel Numbers, recorded physical addresses (where applicable) and acreages for each of the parcels that comprise the Site.

County of San Diego APN	Property Owner Reference	Recorded Physical Address (Per Assessor Record)	Reported Acreage
646-093-07-00	Watson	None	0.91
646-093-09-00	Watson	None	0.91
646-093-10-00	Watson	None	0.91
646-093-11-00	Watson	None	0.91
646-093-12-00	Watson	None	0.91
646-100-17-00	Martinez	None	10
646-100-18-00	Martinez	None	10
646-100-20-00	Martinez	2160 Cactus Road	19.08
646-100-21-00	Kay Mark Inc.	None	10
646-100-38-00	Martinez	2240 Cactus Road	9.55
646-100-71-00	Martinez	2440 Cactus Road	14.85
646-100-76-00	Sesi/Attisha	1902 Cactus Road	15.02

A Vicinity Map and Topographic Map depicting the general location of the Site are included in Appendix A.

2.2 Site and Vicinity General Characteristics

The Site and its adjacent/nearby properties are comprised primarily of vacant land, agricultural land and commercial development, with some scattered residences. Additional details pertaining to the Site and its adjoining properties are provided in the sections below.

2.3 Current Use of the Site

Current land uses of the Site are as follows:

County of San Diego APN	Property Owner Reference	Recorded Physical Address (Per Assessor Record)	Current Land Use
646-093-07-00	Watson	None	-Vacant agricultural land (dry farming)
646-093-09-00	Watson	None	-Vacant agricultural land (dry farming)
646-093-10-00	Watson	None	-Vacant agricultural land (dry farming)
646-093-11-00	Watson	None	-Vacant agricultural land (dry farming)
646-093-12-00	Watson	None	-Vacant agricultural land (dry farming)

646-100-17-00	Martinez	None	-Vacant agricultural land (livestock grazing) and associated equipment and debris storage -Canyon area (partially filled)
646-100-18-00	Martinez	None	-Vacant agricultural land (dry farming)
646-100-20-00	Martinez	2160 Cactus Road	-Vacant agricultural land (dry farming) -Residential -Agricultural structures/facility/office for Martinez Farms -Equipment and debris storage
646-100-21-00	Kay Mark Inc.	None	-Vacant agricultural land (dry farming) -Canyon area
646-100-38-00	Martinez	2240 Cactus Road	-Residential -Livestock storage and grazing -Equipment and debris storage
646-100-71-00	Martinez	2440 Cactus Road	-Residential -Canyon area (partially filled)
646-100-76-00	Sesi/Attisha	1902 Cactus Road	-Vacant agricultural land (dry farming) -Canyon area -Agricultural structures/facility/office for Martinez Farms

2.4 Description of Structures, Roads, Other Improvements on the Site

A general description of structures, roads and other improvements present at the Site is as follows:

County of San Diego APN	Property Owner Reference	Recorded Physical Address (Per Assessor Record)	Structures, Roads, and Other Improvements
646-093-07-00	Watson	None	-Unnamed dirt road/trail
646-093-09-00	Watson	None	-Unnamed dirt road/trail
646-093-10-00	Watson	None	-Unnamed dirt road/trail
646-093-11-00	Watson	None	-Unnamed dirt road/trail
646-093-12-00	Watson	None	-Unnamed dirt road/trail
646-100-17-00	Martinez	None	-Storage trailers -Animal pens -Various dilapidated single-single sheds
646-100-18-00	Martinez	None	-Unnamed dirt roads/trails
646-100-20-00	Martinez	2160 Cactus Road	-Single-story wood-framed residence with stucco exterior (circa the 1920s) -Multiple single-story wood-framed storage buildings (circa the 1960s to 1970s) -Two-story agricultural building (wood-framed) with cooler room, offices and storage area (circa the 1960s to 1970s) -Unnamed dirt roads/trails -Animal pens -Two concrete loading docks -Numerous concrete slabs
646-100-21-00	Kay Mark Inc.	None	-Unnamed dirt roads/trails -Dilapidated wooden canopies

646-100-38-00	Martinez	2240 Cactus Road	-Unnamed dirt roads/trails -Single-story wood-framed residence (circa the 1920s) -Wood-framed lean-to building -Dilapidated barn -Animal pens
646-100-71-00	Martinez	2440 Cactus Road	-Single-story wood-framed residence with shingle and wood siding (circa the early 1990s) -Single-story wood-framed office building with wood and vinyl siding (circa the early 1970s) -Single-story agricultural storage/maintenance building of corrugated metal construction (circa the mid-1980s) -Multiple greenhouses with plastic siding and roofs (circa the late 1990s/early 2000s) -Unnamed dirt roads/trails
646-100-76-00	Sesi/Attisha	1902 Cactus Road	Unnamed dirt roads/trails Dilapidated wooden canopies

The residences, offices and in-tact agricultural related structures present at the Site appear to be constructed on concrete slabs-on-grade. Other structures such as greenhouse and many sheds and other dilapidated buildings have no floors. Varying amounts of fencing are present at the majority of the Site parcels. Observed fencing was primarily barbed wire or chain link. Indications of various wet and dry utilities were noted at several of the Site parcels. Municipal potable water and sanitary sewer services in the area are provided by the Otay Water District. Electrical and natural gas service in the area is provided by SDG&E. There are no known water supply wells present at the Site. However, it is likely that septic systems are present on-Site that service some of the habitable structures that are present. Aerial photograph based Site Plans are included in Appendix B. Photographs taken of the Site are included in Appendix C.

2.5 Current Uses of the Adjoining Properties

The area surrounding the Site consists primarily of public roadways and residential and commercial properties. CYA performed a visual inspection of adjoining properties from adjacent sidewalks and public right-of-ways. The following table identifies the adjacent property uses:

General Direction	Adjoining Property Use
North	Vacant land, residences, and commercial properties
South	Commercial properties and Siempre Viva Road
East	Cactus Road, residences, and commercial properties
West	Vacant land and commercial properties

None of the adjoining properties were observed to be of significant environmental concern to the Site based on CYA's visual inspection from public right-of-ways.

3.0 User Provided Information

3.1 Title Records

CYA reviewed a preliminary title report pertaining to the Site prepared by First American Title Company dated May 17, 2017. Various landowners of the Site are referenced in the title report that is consistent with those referenced in Section 2.1 of this Phase I ESA. No environmentally related liens, deed restrictions or activity and use limitations pertaining to the Site were noted in the title report or during research completed with the County of San Diego Tax Assessor. In addition, the client is unaware of such encumbrances recorded against the Site. A copy of the preliminary title report is included in Appendix D.

3.2 Environmental Liens or Activity and Use Limitations

The client reportedly has no knowledge of any environmental related liens or activity and use limitations (i.e. engineering or institutional controls) that are related to potential environmental issues at the Site.

3.3 Specialized Knowledge

The client reportedly has no specialized knowledge pertinent to potential “recognized environmental conditions” at the Site.

3.4 Commonly Known or Reasonably Ascertainable Information

The client reportedly has no knowledge of commonly known or reasonably ascertainable information pertinent to potential “recognized environmental conditions” at the Site.

3.5 Valuation Reduction for Environmental Issues

As of the date of this report, the client reportedly has no information pertaining to the relationship of the purchase price to the estimated fair market value of the property that might indicate that significant contamination exists.

3.6 Owner, Property Manager, and Occupant Information

The Site owners are referenced in Section 2.1 of this report. The Site owners are also considered to be the property managers and occupants (where applicable).

3.7 Reason for Performing Phase I ESA

CYA, as an independent consultancy, has been retained to conduct this Phase I ESA to identify environmental issues that may be present and to comply with 40 CFR Part 312.

3.8 Prior Environmental Reports

Multiple prior environmental reports pertaining to the Site were reviewed by CYA, including:

- *Phase I and II Environmental Site Assessment, Kuta 10-Acre Property, APN #646-100-21, San Diego, California*, dated February 25, 2004 and prepared by Rincon Consultants, Inc.
- *Phase I and II Environmental Site Assessment, Mascari Property, 2240 Cactus Road, APN#646-100-38, San Diego, California*, dated March 8, 2004 and prepared by Rincon Consultants, Inc.
- *Phase I and II Environmental Site Assessment, 2160 Cactus Road, San Diego, California*, dated April 14, 2004 and prepared by Rincon Consultants, Inc.
- *Master Phase I Environmental Site Assessment, 118 Acre Property, West of Cactus Road, South of Otay Mesa Road, San Diego, California*, dated July 22, 2004 and prepared by Rincon Consultants, Inc.
- *Phase I Environmental Site Assessment and Phase II Soil Sampling, Assessor's Parcel Numbers 646-100-17, -18, -20, -21, -38, -71 – 2160, 2240, and 2440 Cactus Road, San Diego, California*, dated July 12, 2013 and prepared by SCS Engineers.
- *Phase I Environmental Site Assessment, 1902 Cactus Road, APN#646-100-76, San Diego, California*, dated June 25, 2014 and prepared by SCS Engineers.
- *Phase II Soil Sampling, 1902 Cactus Road, APN#646-100-76, San Diego, California*, dated April 14, 2015 and prepared by SCS Engineers.
- *Phase I Environmental Site Assessment, Vacant Parcels Southwest of the Intersection of Cactus Road and Airway Road, APN#646-093-07, -09, -10, -11, and -12, San Diego, California*, dated April 28, 2015 and prepared by SCS Engineers
- County of San Diego DEH Letter, dated October 25, 2016
- *Soil Management Plan, Otay Canyon Ranch/Lumina, Cactus Road, San Diego, California, Voluntary Assistance Program Case #DEH2014-LSAM-000254*, dated April 7, 2017 (Revised May 19, 2017) and prepared by C Young Associates
- County of San Diego DEH Letter, dated May 23, 2017

The reports are summarized below.

Phase I and II Environmental Site Assessment, Kuta 10-Acre Property, APN #646-100-21, San Diego, California, dated February 25, 2004 and prepared by Rincon Consultants, Inc.

This assessment pertained to the approximately 10-acre portion of the Site that was predominately used for agriculture and planted with cucumbers. A portion of a canyon was also present in the northern portion of the property. Portions of the canyon area were noted as containing household waste/debris. No significant environmental concerns were

noted during the completion of regulatory agency file reviews for the property and adjacent properties. The assessment did reveal the following environmental concerns:

- The former and current use of the property for agricultural purposes.
- Solid waste and debris in the upper elevation areas of the canyon in the northern portion of the property.

To address the concern regarding agricultural land uses, ten soil borings (identified as AG1 through AG10) were drilled at the property. Soil samples were collected from six inches below the surface at all of the sampling locations. Samples were also collected at depths of two feet at nine of the sampling locations and at five feet at one location. Minor concentrations (i.e., below then-applicable residential human health risk-based screening levels) of the organochlorine pesticides (OCPs) 4,4-DDD, 4,4-DDE and 4,4-DDT were detected in various soil samples. Nine of the ten soil samples obtained from six-inch depths contained the OCP toxaphene above its residential U.S. EPA Preliminary Remediation Goal (PRG), which was the applicable screening level at the time of the assessment. No other elevated toxaphene concentrations were detected in remaining soil samples obtained from greater depths. Rincon concluded that if the toxaphene impacted soil was mixed during normal grading operations assuming a removal and re-compaction effort of 10 feet, the highest detected toxaphene concentrations would be reduced by a factor of about 15, resulting in expected residual toxaphene concentrations below the residential PRG. Rincon did not recommend that additional assessment be completed at the property, though it was recommended that trash and debris be removed from the canyon area in the northern portion of the property.

CYA has prepared a Soil Management Plan (SMP) for the Site that was published and approved by the County of San Diego Department of Environmental Health (DEH) in May of 2017 (See the summary near the end of this section). The plan will be implemented with CYA as the “environmental consultant of record” when Site development activities commence. The plan provides provisions for the property handling and management of impacted soil and trash and debris present at this portion of the Site. As such, the above referenced OCP impacted soil and trash and debris will be properly managed under the DEH-approved SMP during future Site development activities.

Phase I and II Environmental Site Assessment, Mascari Property, 2240 Cactus Road, APN#646-100-38, San Diego, California, dated March 8, 2004 and prepared by Rincon Consultants, Inc.

This assessment pertained to another approximately 10-acre portion of the Site. At the time of the assessment, the property was an operating horse ranch that consisted of a residence, two barns, a shed, an equine pool, a horse track and several horse corrals. Two ASTs were noted during the reconnaissance of the Site. In addition, a suspect pipe was observed and was later found to be associated with a septic tank. A hazardous materials storage area was observed near one of the barns and surficially stained soil was observed in the area.

No significant environmental concerns were noted during the completion of regulatory agency file reviews for the property and adjacent properties. However, the assessment did reveal the following environmental concerns:

- The presence of two fuel ASTs at the Site
- Soil staining in the hazardous materials storage area
- A septic tank and system present at the Site

To address the concerns referenced above, four soil borings were drilled at the Site; two in the vicinity of the two ASTs; one in the hazardous materials storage area, and; one in the area of the septic tank and system. The borings were drilled to depths of five feet at each location. Heavy-ended petroleum hydrocarbons were detected at a concentration of 1,240 milligrams per kilogram (mg/kg) at the five-foot depth at one of the locations situated adjacent to the ASTs. No detections of petroleum hydrocarbons were reported at the other AST location. Heavy ended hydrocarbons were also detected at 71 mg/kg at the 0.5-foot depth at the sampling location within the hazardous materials storage area, but were not detected at the two-foot depth at the same sampling location. Petroleum hydrocarbons were not detected at the sampling location at the septic system area.

To further evaluate the potential presence of hydrocarbon impacted soil at the property, additional soil sampling and analysis was conducted concurrent with geotechnical trenching performed at the site. Five soil samples were obtained from a trench in proximity to the ASTs and two were found to contain heavy-ended petroleum hydrocarbons at 14 mg/kg (depth of ten feet) and 624 mg/kg (depth of six feet), respectively.

Rincon estimated that approximately 40 cubic yards of soil that contained detectable concentrations of heavy ended petroleum hydrocarbons was present at the property. Rincon concluded that when such soil is displaced during future Site development, it can be delivered to a regulated landfill facility or reused on-Site if permitted by a regulatory authority. As indicated above, there is a DEH-approved SMP currently in place and the above-referenced petroleum hydrocarbon impacted soil will be properly managed during future Site development activities.

Phase I and II Environmental Site Assessment, 2160 Cactus Road, San Diego, California, dated April 14, 2004 and prepared by Rincon Consultants, Inc.

This assessment pertained to an approximately 40-acre portion of the Site identified by County of San Diego APNs 546-100-17, -18 and -20. At the time of the assessment, the property was used for residential and agricultural purposes and planted with cucumbers, bell peppers, tomatoes and ornamental ground cover. The northeastern area of the property contained a residence, storage sheds, a packing area, carports, animal pens and greenhouse areas. During a reconnaissance of the property, the following potential concern areas were noted:

- Several fuel ASTs
- A hazardous materials storage room containing various pesticides and other pest control related products

- Several drums containing oil and gasoline
- Two effluent disposal systems
- Several burn areas
- Small areas of stained soil
- Canyon fill (approximately 25 to 30 feet deep) in the southwestern portion of the property

No significant environmental concerns were noted during the completion of regulatory agency file reviews for the property and adjacent properties. In addition to the use of the property for agricultural purposes, the conditions of concern noted during the reconnaissance of the property (listed above) were considered to be “recognized environmental conditions” by Rincon.

To address the concerns referenced above, 42 soil borings were drilled at the property. In addition, eight exploratory trenches were excavated in the canyon fill area. The borings were drilled to depths ranging from approximately three to five feet below ground surface (bgs). The trenches were excavated to depths of 26 feet. Soil samples were collected at various depths within the borings and trenches for potential laboratory analysis. Select soil samples were analyzed for Title 22 Metals, OCPs, herbicides, polychlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH) and volatile organic compounds (VOCs). Results of the sampling and analysis revealed the following:

- In burn and soil stained areas, no PCBs were detected in any soil samples analyzed for those constituents, and metals concentrations were considered normal. A single detection of heavy-ended petroleum hydrocarbons was reported at 59 mg/kg in one of the soil samples.
- No contaminants of concern were identified in soil obtained from the septic leach field areas.
- No contaminants of concern were identified in soil obtained from the AST areas.
- Soil samples obtained from the 0.5-foot depths in the interior of the hazardous materials storage room contained concentrations of the OCPs 4,4-DDT and toxaphene above their respective residential PRGs. The soil samples obtained from the two-foot depths in the same soil borings were below the screening levels.
- Multiple soil samples obtained from the agricultural field areas at depths varying between 0.5-foot and 1.5 feet below the surface contained one or more OCP compounds (4,4-DDE, 4,4-DDT and/or toxaphene) above the respective residential PRGs. It was estimated that the elevated OCP areas totaled approximately eight acres.
- The canyon fill area was found to be comprised of construction debris from ground surface to a maximum of 26 feet below the surface. The canyon was noted as being deepest and containing approximately 50 percent debris in its central area. Thirty soil samples were obtained from the canyon area during the exploration activities. Of these 30 samples, 28 were found to contain detectable concentrations of heavy-ended hydrocarbons ranging in concentration from 5.1 mg/kg to 1,300

mg/kg. Lead was also identified as a contaminant of concern in the fill soil, with some concentrations exceeding thresholds that would render it a hazardous waste in the State of California. Other metals and OCP compounds were not noted as being contaminants of significant concern in the canyon fill soils.

Rincon concluded that impacted soils from the agricultural field and canyon fill areas would require proper handling during grading for future development and that multiple options existed relative to either off-Site disposal or on-Site reuse of the OCP-impacted soil and canyon fill material. As indicated above, there is an DEH-approved SMP currently in place and the above-referenced pesticide impacted soil and canyon fill material will be properly managed during future Site development activities.

Master Phase I Environmental Site Assessment, 118 Acre Property, West of Cactus Road, South of Otay Mesa Road, San Diego, California, dated July 22, 2004 and prepared by Rincon Consultants, Inc.

In this Phase I ESA, and similar to that which was reported in the reports above, Rincon identified 72 acres of the 118-acre property that were being used for agricultural purposes. In consideration of the data already available, additional soil sampling and analysis in the agricultural areas was not recommended. However, and consistent with the recommendations presented above, soil management of the OCP-impacted soil during future grading activities was recommended and, as stated previously, will be properly managed under the DEH approved SMP during future Site development activities.

Phase I Environmental Site Assessment and Phase II Soil Sampling, Assessor's Parcel Numbers 646-100-17, -18, -20, -21, -38, -71 – 2160, 2240, and 2440 Cactus Road, San Diego, California, dated July 12, 2013 and prepared by SCS Engineers.

This assessment evaluated the approximately southern 73 acres of the Site. The property was subject to various land uses at the time of the assessment, including livestock grazing/maintenance, equipment storage, agricultural activity, residential and commercial (Martinez Farms facility). A canyon partially filled with debris was noted in the southwestern portion of the property. Several containers of hazardous materials and wastes were noted, including 5- to 500-gallon capacity containers of motor oil and used oil (including ASTs), a 55-gallon of a fuel additive product, a 55-gallon drum of a detergent product, ASTs, bags and other containers of fertilizer, two propane ASTs, a 55-gallon drums of used oil filters and retail sized containers of general automobile maintenance and cleaning related products. Several empty ASTs were also noted at the property. In addition, a former reservoir area was noted just north of the canyon fill area.

The Phase I ESA also included a review of County of San Diego DEH and San Diego Regional Water Quality Control Board (SD-RWQCB) regulatory files pertaining to the Site and select adjacent/nearby properties in addition to the environmental reports prepared by Rincon that were summarized previously in this section. Based on the information gathered during the preparation of the Phase I ESA, a scope of work for soil sampling and analysis at the property was developed. The following conditions deemed as representing a moderate-to-high likelihood of being "recognized environmental conditions" were noted:

- APN 646-100-17 - Canyon fill area and former reservoir fill area
- APN 646-100-20 – Portion of a reservoir fill area
- APN 646-100-38 – Agricultural land use and portion of a reservoir fill area
- APN 646-100-71 - Agricultural land use and canyon fill area

In April 2013, SCS advanced 13 soil borings (B1 to B13) at the APN 646-100-71 portion of the property with a hand auger to depths up to approximately three feet below grade and excavated two test pits (P1 and P2). In May 2013, SCS also advanced 17 soil borings (B14 to B30) at APNs 646-100-17, -20, -38 and 71 with a direct push drill rig to depths of up to 25 feet below grade. Select soil samples from both efforts were analyzed for OCPs, total lead and/or arsenic and/or TPH, as detailed below.

Seventy-six (76) soil samples obtained from the soil borings and test pits were analyzed for OCPs. Detectable concentrations of OCPs were compared to residential California Human Health Screening Levels (CHHSLs), the applicable screening levels at the time the assessment was conducted. Of the 76 soil samples analyzed for OCPs, only two were found to contain the OCP toxaphene at concentrations in excess of its respective CHHSL of 460 micrograms per kilogram (µg/kg). The toxaphene was identified at the 0.5-foot and five-foot depths of soil boring B16 (former reservoir area at parcel -20) at concentrations of 1,340 µg/kg and 4,570 µg/kg, respectively. It was not detected at the 10-foot depth at the same boring location.

Eighty-one (81) soil samples obtained from the soil borings and test pits were analyzed for total arsenic and/or lead. Of these 81 samples, only one sample obtained from a depth of 5 feet from boring B16 (i.e., the former reservoir area at parcel -20) was found to contain arsenic and lead above their respective CHHSL. The arsenic and lead concentrations were reported at 20.1 mg/kg and 5,650 mg/kg, respectively, thusindicating that soil in the area of the former reservoir area at parcel -20 may be profiled as a hazardous waste if/when removed from the property. Elevated concentrations of arsenic and lead were not detected at the 10-foot depth at the same boring location.

Thirty-seven (37) soil samples were analyzed for TPH. Only three of the samples were found to contain detectable concentrations of TPH (diesel and oil range hydrocarbons). The sample locations and respective TPH detections are summarized as follows:

- B16 at 5 feet (former reservoir area at parcel -20) – Diesel range hydrocarbons at 7,960 mg/kg and oil range hydrocarbons at 19,500 mg/kg
- B17 at 0.5 feet (former pond/reservoir area at parcel -17) – Diesel range hydrocarbons at 656 mg/kg and oil range hydrocarbons at 956 mg/kg
- B30 at 10 feet (canyon fill area at parcel -17) – Diesel range hydrocarbons at 58.4 mg/kg and oil range hydrocarbons at 84.4 mg/kg

TPH was not detected at or above the laboratory reporting limits in the soil samples collected from below the above-referenced samples. This includes the 10-foot depth of boring B16, the five and 10-foot depths of boring B17 and the 10 and 15-foot depths of boring B30.

SCS Engineers recommended that once site redevelopment plans were known, a soil management plan for the site should be developed. The consultant also recommended voluntary regulatory involvement/ concurrence with the proposed soil management activities. As stated previously, pesticide impacted soil throughout the Site and fill soils at the Site will be properly managed under the DEH-approved SMP during future Site development activities.

Phase I Environmental Site Assessment, 1902 Cactus Road, APN#646-100-76, San Diego, California, dated June 25, 2014 and prepared by SCS Engineers.

This assessment evaluated the northern approximately 15 acres of the Site. At the time of the assessment, the subject property was primarily used for agricultural purposes. Other features at the property included an animal enclosure (wooden shed and chain-linked fence area), perimeter fencing in some areas and a portion of Spring Canyon. Miscellaneous household debris was observed at the top of the slope of Spring Canyon in the western portion of the Site. The completion of interviews and historical and regulatory agency research of the Site did not reveal significant environmental concerns. With the exception of the historical and current use of the property for agricultural purposes and a portion of what appeared to be a previously filled reservoir along the southern property boundary (discovered during a prior assessment completed on the adjacent property to the south), no environmental concerns were identified during the completion of the assessment. To address the concerns identified during the Phase I ESA, soil sampling and analysis was recommended by SCS Engineers (see below).

Phase II Soil Sampling, 1902 Cactus Road, APN#646-100-76, San Diego, California, dated April 14, 2015 and prepared by SCS Engineers.

This assessment was completed per the recommendations of the Phase I ESA for this parcel dated June 25, 2014 (summarized above). The assessment consisted of the advancement of 23 soil borings (J1 through J23) with a direct push drill rig to maximum depths of 15 feet bgs, and the excavation of one test pit (J24) by a backhoe to a depth of 16 feet bgs. Shallow soil samples were collected from each of the borings and the test pit at approximate depths of 0.5, 1.5, and 3 feet bgs to assess for OCPs and arsenic, and for select locations (J18 to J20 and J22 to J24), deeper soil samples were collected to assess for fill material in the former reservoir area. Soil borings J1 through J17 and J21 were situated in agricultural areas throughout the property. Soil borings J18 through J20, J22 and J23 were situated either within the limits of the filled reservoir area or along its boundaries. The test pit (J24) was excavated within the limits of the filled reservoir.

Within the filled reservoir area, fill soil was encountered from the surface to depths of approximately 10 to 12 feet below grade. The shallow fill soil in this area (i.e., from the existing grade to depths of two to three feet bgs) generally appeared to be mixed formational soils consisting of light brown, fine to medium grained silty sand with no obvious staining or odors. These soils were underlain by dark brown to black, loose, medium-grained silty sand with trash such as automotive debris and stained soil with petroleum odors to depths of 10 to 12 feet or to formational soil.

Sixty-one (61) soil samples were analyzed for OCPs, which were detected at all of the 24 locations at the 0.5-foot bgs sample depth. The OCP analytes reported included 4,4-DDD, 4,4-DDE, 4,4-DDT, and toxaphene. Of those 24 locations, samples from 19 of the locations exceeded the EPA Regional Screening Levels (RSLs) for residential uses (the applicable screening levels at the time the assessment was conducted) for at least one analyte at the 0.5 foot sample depth, and three locations exceeded the same RSLs for at least one analyte at the 1.5 foot sample depth. There was one sample that exceeded its respective RSL at 3 feet bgs in a fill soil location within the former reservoir (sample J22-3). OCPs were also detected above laboratory reporting limits in samples collected to a maximum depth of 10 feet bgs within sample J24-10, but only one of the samples collected deeper than 3 feet bgs reported with OCPs above the RSLs for residential use (J22-5 reported with 11,400 µg/kg of toxaphene).

Soil samples collected from 0.5 feet bgs from borings J1 through J23 and test pit J24 were also analyzed for total arsenic. All of the 0.5-foot samples analyzed for arsenic were above the laboratory reporting limit with concentrations ranging from a minimum of 1.58 mg/kg to a maximum of 5.47 mg/kg. These concentrations were noted as being within the naturally occurring (background) concentrations of arsenic reported in California soils.

Twenty one (21) soil samples from the former reservoir were analyzed for Title 22 metals and an additional four samples from various depths were analyzed for total lead, only. Only lead was detected at concentrations exceeding human health risk-based screening level of 80 mg/kg in nine of 25 samples analyzed and within the interpreted fill soils of the former reservoir. Select soil samples were also analyzed for soluble lead, as some of the total lead concentrations exceeded a waste profiling related threshold of 1,000 mg/kg. The results of the lead testing indicated that if soil from the former reservoir were to be removed from the property, some of such soil would likely be profiled as a hazardous waste.

A total of 26 soil samples collected from fill soils within, and soil from the immediate vicinity of, the former reservoir were analyzed for petroleum hydrocarbons. Gasoline range hydrocarbons were detected in one of the 26 soil samples analyzed during the assessment. The detected concentration of gasoline was reported at the 10-foot depth of test pit J24 at a concentration of 965 mg/kg. Diesel range hydrocarbons were not detected in any of the 26 soil samples. Oil range hydrocarbons were reported in eleven samples from within former reservoir fill soils, including samples from borings J22 and J23, and test pit J24, as well as boring B16 at depths ranging from 1.5 feet bgs to the maximum depth sampled at 16 feet bgs in sample J24-16. The maximum oil concentration reported was 24,200 mg/kg in sample J24-10 collected at 10 feet bgs.

Based on these findings, SCS Engineers recommended that impacted soil at the property be managed in accordance with a soil management plan. As stated previously, pesticide impacted soil throughout the Site and fill soils at the Site will be properly managed under the DEH-approved SMP during future Site development activities.

Phase I Environmental Site Assessment, Vacant Parcels Southwest of the Intersection of Cactus Road and Airway Road, APN#646-093-07, -09, -10, -11, and -12, San Diego, California, dated April 28, 2015 and prepared by SCS Engineers

This assessment evaluated the western 4.55 acres of the Site. At the time of the assessment, the subject property was vacant and undeveloped land (formerly used for agricultural purposes). The completion of interviews and historical and regulatory agency research of the Site did not reveal significant environmental concerns. With the exception of the historical use of the property for agricultural purposes, no environmental concerns were identified during the completion of the assessment. To address the concerns identified during the ESA, soil sampling and analysis was recommended by the consultant. The consultant also recommended that any OCP impacted soil at the property should be managed in accordance with a soil management plan. As stated previously, pesticide impacted soil throughout the Site will be properly managed under the DEH-approved SMP during future Site development activities.

County of San Diego DEH Letter dated October 25, 2016

The letter states that the DEH reviewed the above-referenced assessment reports prepared by Rincon Consultants and SCS Engineers and concluded that adequate soil assessment has been completed at the Site. The DEH further states that a Soil Management Plan and Community Health and Safety Plan should be submitted to the DEH in advance of Site development.

Soil Management Plan, Otay Canyon Ranch/Lumina, Cactus Road, San Diego, California, Voluntary Assistance Program Case #DEH2014-LSAM-000254, dated April 7, 2017 (Revised May 19, 2017) and prepared by C Young Associates

CYA prepared an SMP for the Site in response to the above-referenced DEH letter from October 25, 2016. The SMP includes a summary of prior Site assessment findings, a conceptual development plan for the Site, and the management related steps that will be necessary to facilitate said development plans, including:

- Removal and onsite placement (burial) of topsoil containing residual concentrations of OCPs above human health risk-based screening levels.
- Removal, profiling and disposal of waste debris and either disposal or reuse of soil containing contaminants of concern other than OCPs located at three known locations at the Site, including the canyon fill area at parcel -71, the hazardous materials storage/AST area at parcel -38 and the filled reservoir area at parcels -20 and-76.
- Reassessment of areas where soil targeted for burial or offsite disposal has been removed.
- Screening of fill material from borrow locations for a potential school area at the Site.
- Contingency provisions in the event that previously unforeseen impacted soil is encountered during the course of Site development activities.
- Presentation and planned implementation of a Community Health and Safety Plan for the Site.
- Documentation of all of the above.

The primary objective of the SMP is to affirm the protection of human health during the proposed soil management activities and to provide that proper waste management procedures are implemented. CYA proposed that soil management will be conducted under the oversight of the County of San Diego DEH via the Voluntary Assistance Program (VAP). At the completion of the soil management activities, CYA will submit a Site Closure Report and request concurrence from VAP regarding the soil management activities completed.

County of San Diego DEH Letter dated May 23, 2017

The letter states that the DEH reviewed the above-referenced SMP and approves of the SMP as proposed.

4.0 Records Review

4.1 Standard Environmental Record Sources

CYA reviewed Federal and State environmental databases provided by EDR of Shelton, Connecticut for information pertaining to documented and/or suspected releases of regulated hazardous substances and/or petroleum products within specified search distances. A copy of the EDR report is included in Appendix E.

CYA also reviewed unmappable sites listed in the environmental database report by cross-referencing addresses and site names. “Unmappable” sites are sites that cannot be plotted with confidence but can be located by zip code or city name. In general, a site cannot be mapped because of inaccurate or missing location information in the record provided by the regulatory agency. Any “unmappable” sites that CYA identifies within the specified search radii were evaluated as part of the preparation of this report.

The following Federal databases related to potential on-site and off-site sources of contamination were reviewed and interpreted by CYA:

Federal Databases	Search Distance From Site
National Priorities List (NPL)	One mile
Proposed NPL	One mile
Delisted NPL	One mile
NPL Liens	Target Property
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) – FEDERAL FACILITY AND SEMS	One-half mile
CERCLIS No Further Remedial Action Planned (NFRAP) – SEMS ARCHIVE	One-half mile
Resource Conservation and Recovery Act (RCRA) CORRACTS Facilities List	One mile
RCRA NON-CORRACTS Hazardous Waste Treatment, Storage and Disposal (TSD) Facilities	One-half mile
RCRA Hazardous Waste Generators (RCRA GEN) – Large Quantity Generators (LQG), Small Quantity Generators (SQG) and Conditionally Exempt Small Quantity Generators (CESQG)	One-eighth mile
Federal Institutional/Engineering Control Registries (IC/EC) – LUCIS, US ENG CONTROLS and US INST CONTROLS	One-half mile
Emergency Response Notification System (ERNS)	One-eighth mile

The following State/local databases related to potential on-site and off-site sources of contamination were also searched and reviewed:

State/Local Databases	Search Distance From Site
State Equivalent NPL and CERCLIS (RESPONSE and Envirostor)	One mile
Inactive, Active, and/or Permitted Solid Waste/Landfill Facilities (SWL)	One-half mile
San Diego County DEH Site Assessment and Mitigation (SAM)	One-half mile
Leaking Underground Storage Tanks (LUST)	One-half mile

Spills, Leaks, Investigations, and Cleanup (SLIC)	One-half mile
Registered Storage Tanks (UST/AST)	One-eighth mile
State Voluntary Cleanup Sites (VCP)	One-half mile
State Brownfield Sites (BROWNFIELDS)	One-half mile

Descriptions/sources of each of the above-referenced regulatory databases and the dates these databases were last updated by the applicable regulatory agencies are included in the EDR report.

Site

The Site is listed on multiple standard regulatory databases as follows:

- Martinez Ranch – 2160 Cactus Road – SAM, SLIC, and AST
- Martinez Farm – 2440 Cactus Road – AST
- Otay Canyon Ranch - 2440 Cactus Road – SLIC

The listings for Martinez Ranch pertain to both the closed VAP case for the project (discussed in Section 4.2 of this report, below) and registration of various ASTs at the property. The listing for Martinez Farm also pertains to registered ASTs. The SLIC listing pertains to the active VAP case for the Site that is discussed in Sections 3.8 and 4.2 of this report.

Adjoining and Nearby Properties

One property mapped within a one-eighth-mile radius of the Site was identified in the standard regulatory databases. The property is identified as the Tripp Salvage Landfill and is mapped 0.1-mile to the north-northeast of the Site at 900 Cactus Road. This property is listed on the SLIC database with an “open-inactive” status and the SD-RWQCB as a lead environmental regulatory agency. Contaminants of concern referenced for the property include copper, lead, and zinc, and the media affected includes soil and groundwater.

The Tripp Salvage Landfill property is also identified as the Sesi Property in regulatory records. Although a portion of the subject Site is reportedly owned by the Sesi family, the Tripp Salvage Landfill property is not associated with the subject Site and the limits of the landfill are not mapped as being located within the boundaries of the subject Site. From approximately 1968 to 1977, automobile dismantling waste was reportedly placed at the landfill property and in 1987, burn ash-contaminated soil was reportedly placed at the off-Site landfill property. Such materials were reportedly covered with fill material from other landfills in the area. It was estimated that the waste extended to a depth of approximately 65 feet. Groundwater samples collected from this property in 1998 reportedly contained detectable concentrations of VOCs, semi-volatile organic compounds and metals. Remediation of this property has been proposed and the planned means and methods to accomplish the remedial work have been approved by the SD-RWQCB as of October 2013. The proposed remedial work is to include construction of a three-foot thick soil cap over a two-foot foundation layer over the 4.1 acres of waste fill at the property. A portion of the soil cap will originate from a designated borrow source on the property. The remaining soil cap material would come from an off-property source. A new surface

drainage pattern would be created by diverting the flow of storm water to the perimeter of the soil cap. Upon placement of the soil cap, an irrigated vegetative cover would be established to help limit erosion of the new cap. Additionally, one year of maintenance was proposed following the completion of construction to accommodate any settlement in the cap and repair the vegetative cover as required. The remedial work has yet to commence.

There are also multiple properties mapped between one-eighth and one mile from the Site that are listed on various standard regulatory databases including RCRA SQG (one listing), Envirostor (three listings), SWL (one listing), SAM (six listings), LUST (three listings), SLIC (nine listings) and AST (three listings). All of the off-Site properties referenced in this section are not considered to be significant environmental concerns to the Site. This opinion is based on several factors including the distance of the off-Site listed properties from the Site, orientation of the listed properties relative to the Site, interpreted direction of groundwater flow, and/or regulatory case status information for the various properties as described in the database report.

Non-ASTM Database Reviews

Below is a list of non-ASTM databases searched by EDR and reviewed by CYA during the preparation of this assessment. The descriptions of each database and their data release frequency are included in the EDR report, included in Appendix E.

<u>Local Brownfield Lists</u>
US BROWNFIELDS - A Listing of Brownfields Sites

<u>Local Lists of Landfill / Solid Waste Disposal Sites</u>
WMUDS/SWAT - Waste Management Unit Database
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

<u>Local Lists of Hazardous Waste / Contaminated Sites</u>
US HIST CDL - National Clandestine Laboratory Register
HIST Cal-Sites - Historical Calsites Database
SCH - School Property Evaluation Program
CDL - Clandestine Drug Labs
San Diego Co. HMMD – San Diego County Hazardous Materials Management Division Database
Toxic Pits - Toxic Pits Cleanup Act Sites
US CDL - Clandestine Drug Labs

<u>Local Lists of Registered Storage Tanks</u>
SWEEPS UST – SWEEPS UST Listing

HIST UST – Hazardous Substance Storage Container Database
CA FID UST – Facility Inventory Database

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
RCRA-NonGen - RCRA - Non-Generators
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
ROD - Records Of Decision
RMP - Risk Management Plans
RAATS - RCRA Administrative Action Tracking System
PRP - Potentially Responsible Parties
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 ASDH DOE – Sleam Electric Plan Operation Data Listing
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
FINDS - Facility Index System/Facility Registry System
UXO – Unexploded Ordnance Sites
DOCKET HWC – Hazardous Waste Compliance Docket Listing
ECHO – Enforcement and Compliance History Information
FUELS PROGRAM – EPA Fuels Program Registered Listing
CA BOND EXP. PLAN - Bond Expenditure Plan
Cortese - Hazardous Waste & Substances Sites List
CUPA Listings - CUPA Resources List
DRYCLEANERS - Cleaner Facilities
EMI - Emissions Inventory Data
ENF - Enforcement Action List
FINANCIAL ASSURANCE - Financial Assurance Information Listing
HAZNET - Facility and Manifest Data
ICE - Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor
HIST CORTESE - Hazardous Waste & Substance Site List
HWP - Envirostor Permitted Facilities List
HWT - Registered Hazardous Waste Transporter Database
MINES - Mines Master Index File
MWMP - Medical Waste Management Program Listing
NPDES - NPDES Permits Listing
PEST LIC – Pesticide Regulation Licenses Listing
PROC - Certified Processors Database
Notify 65 - Proposition 65 Records
UIC - California Oil and Gas Wells database
WASTEWATER PITS – Oil Wastewater Pits Listing
WDS - Waste Discharge System
WIP - Well Investigation Program Case List

The Site appears on the non-ASTM databases as follows:

- 2160 Cactus Road – ENF
- Martinez Ranch – 2160 Cactus Road – FINDS and HMMD
- Martinez Farm – 2440 Cactus Road – FINDS
- Otay Canyon Ranch - 2440 Cactus Road – HMMD and ENF

The ENF listings for the Site pertain to the SD-RWQCB stormwater related violation and agency jurisdiction of the Site as described in Section 4.2, below. The FINDS listings state that the referenced facilities are also subject to State environmental agency oversight. The HMMD listings pertaining to the Site are in reference to the storage of various hazardous wastes and general DEH violations that were issued (and subsequently corrected) for the Site in 2010 as described in Section 4.2, below.

There are four properties in the Site vicinity that are listed on non-ASTM regulatory databases including HIST CORTESE (two listings), Notify 65 (one listing) and NPDES (one listing). These properties are not considered to be significant environmental

concerns to the Site. This opinion is based on several factors including the distance of the off-site listed properties from the Site, orientation of the listed properties relative to the Site, interpreted direction of groundwater flow, and/or regulatory case status information for the various properties as described in the database report.

4.2 Additional Environmental Record Sources

San Diego County DEH

CYA searched for public records maintained by the County of San Diego DEH. Files from the DEH Hazardous Materials Division were provided to CYA as follows:

- DEH File# H199068 – Martinez Farms – 2440 Cactus Road (APN 646-100-71)
- DEH File# H199064/H211670 - Martinez Ranch - 2160 Cactus Road (APN 646-100-20)

The DEH files for Martinez Farms included several hazardous materials inventory and disclosure related forms dating back to 1988. The general use of ASTs and various agricultural related chemicals (i.e. pesticides and herbicides) was referenced in such forms. No other details were provided and no incidents of releases were noted in the files.

The DEH files for Martinez Ranch also included several hazardous materials inventory and disclosure related forms. Such documentation dated back to the early 2000s. The general use of ASTs and various agricultural related chemicals (i.e. pesticides and herbicides) was also referenced in such forms. Specific to ASTs, the following tanks were referenced for the business during a compliance inspection conducted by the DEH in 2010:

- Two 5,000-gallon capacity diesel tanks
- Three 5,000-gallon capacity gasoline tanks
- Two 50-gallon capacity motor oil tanks

Other containers of hazardous substances or petroleum products observed at the time of the inspection included 10 five-gallon capacity containers of used oil, one five-gallon capacity container of used oil filters and grease-soiled rags. The DEH observed leaking diesel fuel (referenced as small droplets) from the diesel AST dispenser hoses and some stained soil below the AST. The following requirements were noted in the compliance inspection report requiring implementation:

- “Discontinue allowing diesel fuel to spill on to the ground
- Repair the diesel dispensing systems
- Provide secondary containment under the fuel tanks
- Use drip pans where necessary
- Inspect all tanks daily
- Remove and property dispose of diesel impacted soil

- Transfer used oil into drums
- Properly label all containers of waste
- Obtain a DEH permit for hazardous materials storage and hazardous waste generation
- Properly dispose of all accumulated waste
- Obtain an EPA ID# from the State of California
- Conduct employee training pertaining to hazardous materials and waste management at least once a year."

The operator of the facility reportedly corrected the violations referenced above and informed the DEH in writing of actions that were taken to bring the facility into compliance. Copies of information obtained from the DEH Hazardous Materials Division files are included in Appendix F of this report.

In addition to the DEH Hazardous Materials Division Files referenced above, CYA was also provided with DEH VAP files for the Site. There are two DEH VAP cases for the Site identified as follows:

- DEH VAP Case# H99064-001 - Martinez Ranch - 2160 Cactus Road
- DEH VAP Case# DEH2014-LSAM-000254 – Otay Canyon Ranch - 2440 Cactus Road

For Case# H99064-001, an environmental consultant for a prior prospective purchaser and developer (Centex Homes) originally opened up a VAP case for the Site in 2004. The prior environmental documents for the Site prepared by Rincon Consultants and described in Section 3.8 above were included in the VAP file. In notes pertaining to a meeting that was conducted between the DEH and the prospective developer and their consultant, additional soil sampling and analysis at the Site was proposed prior to an anticipated submittal of a remedial action plan. The remedial action plan was to include discussion of the planned management of waste within the canyon fill areas, areas of petroleum impacted soil and pesticide impacted soils throughout the Site. A work plan for additional soil sampling and analysis was approved by the DEH. However, the plan was not reportedly implemented. A letter to the DEH from Centex Homes dated July 23, 2007, stated that due to changes in market conditions, Centex was not moving forward with the development of the Site. It was subsequently requested that the DEH administratively close the VAP case for the Site. A DEH memo dated October 23, 2012, that noted administrative closure to the VAP case due to inactivity.

The current VAP case for the Site (DEH2014-LSAM-000254) is being overseen by CYA as "environmental consultant of record." As stated in Section 3.8, above, CYA has prepared an SMP for the Site that has been approved by the DEH. The plan will be implemented in the future when Site development activities commence.

San Diego Regional Water Quality Control Board

The SD-RWQCB responded to CYA's public records request stating that there are two DEH VAP cases for the Site, with documents pertaining to the VAP cases available on the California State Water Resources Control Board Geotracker database. The former (closed) and active VAP cases are discussed previously in this section.

The SD-RWQCB regulatory file also contained stormwater related records pertaining to 2440 Cactus Road (APN 646-100-71). A Notice of Violation No. R9-2013-0060, Discharge of Waste Without Waste Discharge Requirements or Waiver; Water Code Section 13267 Request for Information (Request for Information) was issued to Mr. Richard Martinez of Martinez Farms in April 2013. The Request for Information indicated that the Martinez Farms facility had been inspected by the SD-RWQCB in January 2013, and various conditions of concern relative to stormwater discharges and best management practices were observed. The storage of various fertilizers at the facility was noted by the SD-RWQCB at the time of the facility inspection. The Notice stated that the facility must file a notice-of-intent to comply with SD-RWQCB regulations relative to stormwater discharges and best management practices. No additional information was included in the SD-RWQCB file for the Site. Copies of information obtained from the SD-RWQCB files are included in Appendix G of this report.

Compliance with stormwater regulations is outside of the scope of a Phase I ESA. As such, additional inquiry regarding stormwater compliance of current Site operations is not deemed to be warranted. However, during future construction activities to be completed at the Site, the Site will be subject to City of San Diego and SD-RWQCB stormwater regulations that pertaining to active construction projects and also post-construction best management practices.

City of San Diego Fire Department

No records pertaining to the Site are on file with the City of San Diego Fire Department.

City and County of San Diego Building Departments

Various records are on file with the City and County of San Diego Building Departments for general structural and utilize related Site improvements. Such improvements include electrical services, construction of agricultural buildings and the construction of fences and walls. No references to hazardous materials/waste, tanks or other potential environmental concerns were noted in the building records.

4.3 Physical Setting Sources

The following physical setting sources were reviewed to provide information about the topographic, hydrologic, geologic and/or hydrogeologic characteristics of the Site.

4.3.1 Topography and Hydrology

USGS Topographic Quadrangle

According to the U.S. Geological Survey topographic map for the Otay Mesa, California 7.5 minute quadrangle (1996), the Site is situated at an elevation of approximately 500 feet above mean sea level (msl) with a gradual north-northwesterly slope. Spring Canyon and associated tributaries exist at the northern perimeter of the Site, with steep slopes terminating at the canyon bottom at approximately 400 feet above msl. Extensions of Spring Canyon also exist to the west of the Site, with steep slopes terminating at the canyon bottom at approximately 300 feet above mean sea level.

Hydrology/Storm Water Management

The Site slopes generally to the west and south toward municipal storm drain systems maintained by the City of San Diego. The Site does not appear to receive significant drainage from off-Site properties.

4.3.2 Geology

The Site lies within the coastal section of the Peninsular Ranges Geomorphic Province; one of 11 physiographic provinces in California recognized by defining features based on geology, faults, topography, and climate. The Peninsular Ranges Province is dominated by a series of northwest-oriented mountain ranges extending from the Baja California peninsula in the south to the Transverse Ranges in the north. The series of mountain ranges are separated by northwest trending valleys, subparallel to faults branching from the San Andreas Fault System. Igneous, metamorphic, and sedimentary rocks are all found within the Peninsular Ranges Province. Plutonic (igneous) rocks of the Peninsular Ranges batholith are predominant throughout much of the Province. The batholithic rocks were emplaced during Cretaceous-age orogenic events and uplifted into the present mountain ranges during the late Tertiary and Quaternary. The coastal section of the Province is underlain by a thick sequence of marine- and terrestrial-derived sedimentary rock units that unconformably overlie basement rocks. Nearly flat marine terraces lie at different elevations throughout the coastal section of the Province as a result of sea floor erosion during marine standstills and subsequent Quaternary faulting and uplift.

According to the Geologic Map of California-El Centro Sheet and multiple reports of environmental and geotechnical assessments performed at parcels comprising the Site, the Site is underlain by Pleistocene marine and non-marine terrace deposits. Local geology is comprised of topsoil, some areas of artificial fill, alluvium, terrace deposits and the Otay Formation. The topsoil is generally comprised of stiff, moist to damp, dark brown sandy clay or silty sand. The alluvium is comprised of poorly consolidated clay, silt, sand, and gravel. Upper terrace deposits are comprised of thick, stiff, moist, dark brown to olive silty or sandy clay with highly expansive characteristics. Lower terrace deposits are comprised of dense to very dense interbedded reddish brown sandy course gravel and gravelly sands with some silt and clay and interbedded massive cobble layers, which increase in size with depth. The Otay Formation consists of dense to very dense, light olive to gray-brown, interbedded clayey siltstones and silty fine-grained sandstones.

4.3.3 Hydrogeology

The Site is situated within the Otay or Tijuana Hydrologic Unit (SWRCB, 1994). Groundwater within this area has potential beneficial uses for municipal, agricultural and industrial supply purposes. The depth to static groundwater beneath the Site is estimated to be at least 100 feet below existing grades and flows toward the southwest.

4.4 Historical Use Information on the Subject Site

CYA reviewed several historical sources (as described in the following sections) to develop a history of the previous uses of the Site, in order to help identify the likelihood of past uses having led to “recognized environmental conditions” in connection with the Site.

4.4.1 Fire Insurance Maps

Historical fire insurance maps are not available for the Site.

4.4.2 Aerial Photographs and Topographic Maps

CYA reviewed historical aerial photographs from the years 1928, 1949, 1953, 1960, 1964, 1966, 1968, 1970, 1971, 1978, 1981, 1983, 1985, 1989, 1994, 1996, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2008, 2009, 2010, 2012, 2013 and 2014 and topographic maps from the years 1903, 1904, 1909, 1912, 1927, 1936, 1942, 1943, 1955, 1957, 1958, 1960, 1961, 1963, 1971, 1973, 1975, 1979, 1981, 1982, 1991, 1996 and 2002 provided via online resources, EDR and prior environmental reports pertaining to the Site. A summary of the historical aerial photograph and topographic map review is included in the table below.

County of San Diego APN	Property Owner Reference	Recorded Physical Address (Per Assessor Record)	Current Land Use
646-093-07-00	Watson	None	**1903-1943** – Vacant land. **1953-2013** – Agricultural land.
646-093-09-00	Watson	None	**1903-1943** – Vacant land. **1953-2013** – Agricultural land.
646-093-10-00	Watson	None	**1903-1943** – Vacant land. **1953-2013** – Agricultural land.
646-093-11-00	Watson	None	**1903-1943** – Vacant land. **1953-2013** – Agricultural land.)
646-093-12-00	Watson	None	**1903-1943** – Vacant land. **1953-2013** – Agricultural land.)

646-100-17-00	Martinez	None	**1928-1975** - Undeveloped land with a canyon traversing the parcel in a north/south direction. What appears to be a dammed pond is visible to the northeast of the northern end of the canyon. **1978-1983** - The area on the west side of the canyon appears to be cleared/graded (1978) and agricultural (1983). Areas east of the canyon are agricultural land. The dammed pond is visible but not as prevalent. **1989-2013** – The majority of the canyon appears to be filled in. The dammed pond is no longer visible. A small portion of the canyon remains at the southern-central portion of the parcel. The central portion of this parcel is disturbed land with structure and equipment. The balance of the parcel is agricultural land and vacant areas for storage of vehicles and equipment/supplies.
646-100-18-00	Martinez	None	**1928-1971**- Undeveloped land with potential agricultural uses. **1978-2013** - Agricultural land. A small structure is present at the northeast corner of the parcel (1978-1983). Small structures are possibly present at the northwest and southwest areas of the parcel (2003).
646-100-20-00	Martinez	2160 Cactus Road	**1928-1949** - The northern and western portions of this parcel are agricultural land. Several structures are present at the southern portion of the parcel. **1953-1955** - The majority of the parcel appears to be vacant land. A reservoir (partially located on the parcel and partially located on the property adjacent to the north) is present at the northern parcel boundary. Several structures are present at the southern portion of the parcel. **1960-2013** – The majority of the parcel appears to be agricultural land. By the late 1970s, the referenced reservoir is no longer visible. Additional structures are present in the southern portion of the parcel.
646-100-21-00	Kay Mark Inc.	None	**1928-1949** - The property is undeveloped land with potential agricultural uses. A canyon traverses the northern portion of the parcel in an east-west direction. **1953-1971** - The property is undeveloped land with potential agricultural uses. A shed-like structure is present at the eastern end of the canyon (1966 and 1968). **1978-2013** - The property is utilized for agricultural purposes (with the exception of the canyon area). Several shed-like structures are present to the southeast of the eastern end of the canyon. What appears to be trash or debris is visible within the canyon.

646-100-38-00	Martinez	2240 Cactus Road	**1928** - The property is undeveloped land with potential agricultural uses. **1949-1960** - The property is utilized for agricultural purposes. A shed-like structure is present in the western portion of the parcel. **1964** - Several structures are present at this parcel, which are interpreted to be related to an equestrian facility. An equine exercise ring is present, and vehicles/equipment are scattered across the parcel. The southern one-third of the parcel is potentially used for agricultural purposes. What appears to be piles or mounds of material (possibly hay) are present in the northwest corner of the parcel. **1966-1975** - Equestrian facility/horse ranch. A pond is present in the central-western portion of the parcel. Multiple structures are present, along with a horse track in the southern portion of the parcel. The exercise ring now appears to be filled with water (equine pond) (1970-71). **1978-2013** - Equestrian facility/horse ranch with paddocks, an equine pond, and a horse track. Additional structures are present, including what appears to be a residence.
646-100-71-00	Martinez	2440 Cactus Road	**1928-1970** - Undeveloped land with a canyon traversing the western portion of the parcel in a north-south direction and the southern portion of the parcel in an east-west direction. A small structure appears to be present in the southern portion of the parcel, north of the canyon. **1971-1975** – The majority of the parcel is vacant and undeveloped. A structure and a paddock are present at the southeast portion of the parcel along Cactus Road. **1978-1983** – The majority of the parcel is vacant and undeveloped. Portions of the canyon extending from its eastern end to the northeast toward Cactus Road, have been filled in. Agricultural land is present along the east side of the north-south trending canyon. Greenhouse-like structures are present in the southeastern portion of the parcel. **1989-2013** – The parcel is developed as a nursery consisting of multiple greenhouse structures, outdoor plant storage, and cultivation areas. Unpaved storage areas with vehicles and possibly supplies/equipment are present on the west side of the north-south trending canyon (1989-2003), as well as at the eastern end of the parcel (along Cactus Road). Trash or debris may be present at the eastern end of the canyon (2003).

646-100-76-00	Sesi/Attisha	1902 Cactus Road	**1909-1943** – Undeveloped land and a canyon. **1953** - Canyon and undeveloped land, except for a reservoir located on the southern portion of the Site and partially on the adjacent property to the south. **1964-1968** - Undeveloped land and agricultural land with a reservoir in the southern portion of the parcel. **1971-2013** - Agricultural land with undeveloped areas in the canyon. The reservoir is no longer visible.

4.4.3 City Directories

CYA reviewed city directories for the Site at the City of San Diego Central Library from the dates of 1958, 1961, 1962, 1967, 1972, 1977, 1982, 1987, 1992/93, 1997/98, 2002, 2007 and 2012. Very few city directory listings for the Site were noted. Listings pertaining to the Site are referenced below:

County of San Diego APN	Property Owner Reference	Recorded Physical Address (Per Assessor Record)	City Directory Listings
646-093-07-00	Watson	None	No listings
646-093-09-00	Watson	None	No listings
646-093-10-00	Watson	None	No listings
646-093-11-00	Watson	None	No listings
646-093-12-00	Watson	None	No listings
646-100-17-00	Martinez	None	No listings
646-100-18-00	Martinez	None	No listings
646-100-20-00	Martinez	2160 Cactus Road	1960s - Residential and South Bay Farmers Coop Association
646-100-21-00	Kay Mark Inc.	None	No listings
646-100-38-00	Martinez	2240 Cactus Road	1960s – Residential and Wishing Well Farm 1970s - Border Horse Ranch/Border Turf Lines
646-100-71-00	Martinez	2440 Cactus Road	1980s - Nursery (Martinez Farms)
646-100-76-00	Sesi/Attisha	1902 Cactus Road	No listings

4.4.4 State of California Division of Oil and Gas Records

According to online resources provided by the California Department of Conservation, Division of Oil, Gas and Geothermal Resources, there are no oil, gas or geothermal wells located on the Site.

4.5 Historical Use Information on Adjoining Properties

CYA also reviewed several historical sources (as described in the following sections) to develop a history of the previous uses of adjoining properties and the surrounding area, in order to help identify the likelihood of past uses having led to “recognized environmental conditions” in connection with the Site.

4.5.1 Fire Insurance Maps

Historical fire insurance maps are not available for adjoining properties of the Site.

4.5.2 Aerial Photographs and Topographic Maps

As stated previously, CYA reviewed historical aerial photographs from the years 1928, 1949, 1953, 1960, 1964, 1966, 1968, 1970, 1971, 1978, 1981, 1983, 1985, 1989, 1994, 1996, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2008, 2009, 2010, 2012, 2013 and 2014 and topographic maps from the years 1903, 1904, 1909, 1912, 1927, 1936, 1942, 1943, 1955, 1957, 1958, 1960, 1961, 1963, 1971, 1973, 1975, 1979, 1981, 1982, 1991, 1996 and 2002 provided via online resources, EDR and prior environmental reports pertaining to the Site. A summary of the historical aerial photograph and topographic map review is included in the table below.

General Direction	Adjoining and Adjacent Property Use
Adjoining to North, South, and East	**2230 Cactus Road** **1903-1943** – Undeveloped land **1953-2013** – Residential and commercial
Adjoining to North, South, and East	**2380 Cactus Road** **1903-1968** – Undeveloped land **1970-1993 -** Residential with horse paddocks **2002-2013** - Residential and agricultural (nursery)
North Adjacent	**1909-1953** – Undeveloped land, canyon and agricultural land. **1964-1989** - Canyon and agricultural land. **1994-2013** - Canyon and commercial development.
South Adjacent	**1903-1989** – Undeveloped land, residential and agricultural **1994-1996** – Vacant land and commercial/light-industrial properties
East Adjacent	**1909-1953** – Undeveloped land and agricultural land. Cactus Road is visible on some of the maps and photographs. **1964-2013** - Residential properties, commercial development, and agricultural land. Cactus Road is visible.
West Adjacent	**1909-2003** – Undeveloped land and agricultural land. **2004-2013** - Undeveloped land, agricultural land, and commercial development.

4.5.3 City Directories

As stated previously, CYA reviewed city directories at the City of San Diego Central Library from the dates of 1958, 1961, 1962, 1967, 1972, 1977, 1982, 1987, 1992/93, 1997/98, 2002, 2007 and 2012. Listings pertaining to the adjacent properties of the Site are referenced below:

General Direction	Adjoining and Adjacent Property Listings
Adjoining to North, South, and East	**2230 Cactus Road** **1953-2013** – Personal names (residential) **2007 -** Max JR Towing
Adjoining to North, South, and East	**2380 Cactus Road** **1970-1993 -** Personal names (residential) **2002-2013** - Tonatico CY Inc.

General Direction	Adjoining and Adjacent Property Listings
North Adjacent	No listings
South Adjacent	**2003-2013** – Light industrial facilities: Alvizia Landscape, VJ Flores Inc., Auto Express, EFA Inc., Herimex Corp., Border Customs Brokerage, Border Grocers, Fecha Enterprises, Francisco's Trucking, Glboal Pallets/Moreno Pallets, Sonia Monroy, VM Trucking, North American Transport, Inc., Ping Pong Services, Inc., Yellow Transportation Inc., Consolidated Freightways, CF Motorfreight
East Adjacent	**1992-2013 -** Personal names (residential), Otay City Auto Sales , Otay Auto Transport, Adesa, Inc. Insurance Auto Auctions, Adesa San Diego, Mission City Auto Auction/Mission City Transmission Service, Auction Drive Service, Convenient Auto Repair & Smog, Nick's Auto Repair & Smog, Star Paving, Inc., Caves JJ Construction
West Adjacent	**2004-2014** – Performance Label International

4.5.4 State of California Division of Oil and Gas Records

According to online resources provided by the California Department of Conservation, Division of Oil, Gas and Geothermal Resources, there are no oil, gas or geothermal wells located on adjoining properties of the Site.

5.0 Site Reconnaissance

The objective of the Site reconnaissance was to obtain information indicating the likelihood of "recognized environmental conditions" in connection with the Site. The reconnaissance was conducted on May 11, 2017, by CYA. CYA was unaccompanied during the Site reconnaissance.

5.1 Methodology and Limiting Conditions

The Site reconnaissance consisted of inspecting interior and exterior areas of the Site and walking accessible roads and pedestrian walkways surrounding the Site. The majority of the Site was fully accessible during the Site reconnaissance. Only a limited portion of the 2440 Cactus Road portion of the Site (APN 646-100-71-00) was accessible at the time of the Site reconnaissance. This is considered to be a data gap in connection with the assessment. However, given the results of prior assessments of this portion of the Site (including the most recent in 2013) and the lack of significant environmental concerns in regulatory agency files pertaining to this portion of the Site, this data gap is not one that is considered to be significant relative to CYA's availability to render an opinion regarding potential environmental concerns at the Site. Please note that in Section 5.3 below, observations described at the 2440 Cactus Road portion of the Site are in part obtained from descriptions included in the 2013 Phase I and II ESA that was completed for said parcel and other parcels that comprise the Site.

As stated previously, Site Plans are included in Appendix B. Photographs of the Site were taken to document existing Site conditions and several are included and described in Appendix C.

5.2 General Site Setting

The Site and its adjacent/nearby properties are comprised primarily of vacant land, agricultural land, and commercial development, with some scattered residences. Additional details pertaining to the Site and its adjoining properties are included in Sections 2.3, 2.4 and 2.5 of this report. The current uses of the Site and adjacent properties are not ones that are indicative of the use, treatment, storage, disposal or generation of significant quantities of hazardous substances or petroleum products that have adversely impacted the Site.

5.3 Site Observations

CYA examined visible and accessible areas of the Site for evidence of the following potential environmental concerns:

Conditions	Not Observed or Noted	Observed or Noted	Significant Concern?
Hazardous Substances/Petroleum Products		X	No
Waste Generation/Storage/Disposal		X	No
ASTs		X	No
USTs	X		--

Conditions	Not Observed or Noted	Observed or Noted	Significant Concern?
PCB Containing Equipment		X	No
Chemical/Petroleum Odors	X		--
Pools of Liquid	X		--
Floor Drains/Sumps/Wells	X		--
Drums		X	No
Stains or Corrosion	X		
Unidentified Substance Containers	X		--
Stained Soil or Pavement		X	No
Stressed Vegetation	X		--
Pits, Ponds or Lagoons	X		--
Wastewater Discharges/Disposal Systems	X		--
Septic Systems/Cesspools		X	No
Non-Hazardous Solid Waste Disposal Areas		X	No
Drinking Water Systems/Water Wells/Other Wells	X		--

The noted items in the table above are discussed below:

Hazardous Substances/Petroleum Products

Several containers of chemical and petroleum products were observed at the Site or referenced in the prior 2013 report, and more specifically at the 2160 Cactus Road (APN 646-100-20-00), 2240 Cactus Road (646-100-38-00) and 2440 Cactus Road (646-100-71-00) portions of the Site. The table below presents a list of materials observed/noted:

County of San Diego APN	Property Owner Reference	Recorded Physical Address (Per Assessor Record)	Materials Observed or Referenced
646-100-20-00	Martinez	2160 Cactus Road	-Gear/motor oil in two 100-gallon containers, multiple 55-gallon drums, and 5-gallon containers -Fuel treatment product in 55-gallon drum -General automobile/equipment maintenance supplies/products in multiple retail-sized containers -General cleaning supplies/products in multiple retail-sized containers -Fertilizer products in two 330-gallon ASTs -Detergent products in multiple 55-gallon drums -Pesticides, insecticides, and herbicides in multiple retail-sized containers
646-100-38-00	Martinez	2240 Cactus Road	-Motor oil, grease products, and paint products in multiple retail-sized containers
646-100-71-00	Martinez	2440 Cactus Road	-Various solid fertilizer products in bags -Liquid fertilizer product in a 50-gallon container -Motor/hydraulic oil in 55-gallon drums -General automobile/equipment maintenance supplies/products in multiple retail-sized containers -Propane in two ASTs

No significant releases of hazardous substances and/or petroleum products were observed or noted at the Site. No staining or other suspect conditions were noted in the vicinity of such materials.

Waste Generation/Storage/Disposal

Few containers of hazardous waste were observed or noted at the Site or referenced in the prior 2013 report, and more specifically at the 2160 Cactus Road (APN 646-100-20-00) and 2440 Cactus Road (646-100-71-00) portions of the Site. The table below presents a list of materials observed/noted:

County of San Diego APN	Property Owner Reference	Recorded Physical Address (Per Assessor Record)	Wastes Observed or Referenced
646-100-20-00	Martinez	2160 Cactus Road	-Used oil filters in a 55-gallon drum -Used oil in a 55-gallon drum
646-100-71-00	Martinez	2440 Cactus Road	-Waste oil in a 500-gallon AST

No significant releases of hazardous wastes were observed or noted at the Site. No staining or other suspect conditions were noted in the vicinity of such wastes.

ASTs

ASTs at the Site are referenced in the Hazardous Substances/Petroleum Products and Waste Generation/Storage/Disposal section above. In addition, there were at least six additional ASTs observed at the Site that appeared to be empty. The ASTs ranged in capacity from 500 to 1,000-gallons and were observed at the 2160 and 2240 Cactus Road portions of the Site. No staining or other suspect conditions were noted in the vicinity of the ASTs.

PCB-Containing Equipment

One ground-mounted electrical transformer is reportedly present at the 2440 Cactus Road portion of the Site. The transformer is reportedly owned by SDG&E. This utility has reported that it has never specified PCBs in its transformers. No additional follow-up or action is required relative to the transformer.

Drums

Drums at the Site are referenced in the Hazardous Substances/Petroleum Products and Waste Generation/Storage/Disposal section above. In addition, there were at least two dozen additional drums (steel and plastic) observed at the Site that appeared to be empty. These drums were observed at the 2160 and 2240 Cactus Road portions of the Site. No staining or other suspect conditions were noted in the vicinity of the drums.

Stained Soil or Pavement

No areas of significantly stained soil were observed at the Site. There was some staining observed on the concrete slab within structures located at the 2160 Cactus Road portion of the Site. This staining is considered to be *de minimis* and not of significant concern to the underlying subsurface soil.

Septic Systems/Cesspools

There are reportedly septic tanks/systems present at the 2160, 2240 and 2440 Cactus Road portions of the Site. Some septic tank/system areas at the Site were previously assessed during prior subsurface investigations completed at the Site with no significant impacts noted.

Non-Hazardous Solid Waste Disposal Areas

Varying amounts of surficial miscellaneous trash and debris were observed at multiple parcels that comprise the Site including the following:

- APN 646-100-17-00 – No reported address
- APN 646-100-20-00 – 2160 Cactus Road
- APN 646-100-38-00 – 2240 Cactus Road
- APN 646-100-71-00 - 2440 Cactus Road
- APN 646-100-76-00 – 1902 Cactus Road

These materials generally consisted of wood fragments, scrap metal, landscape waste, pipe fragments, abandoned appliances and furniture, automobile tires, concrete rubble, asphalt fragments and miscellaneous paper, plastic and glass products. The majority of the materials were noted as being present within portions of the canyon areas in the northwestern and southwestern areas of the Site and in varying level areas in the vicinity of structures at the above-referenced parcels. There is also documented buried trash and debris in the canyon area present in the southwestern portion of the Site (APNs 646-100-17-00 and 646-100-71-00). These materials are slated for removal during future soil management activities to be conducted during Site development and under the DEH-approved SMP for the Site.

6.0 Interview Information

6.1. Interview With Owner

The Site owners are referenced in Section 2.1 of this report. The Site owners are unaware of significant environmental concerns in connection with the Site.

6.2 Interview With Site Manager

The Site owners are also considered to be the Site Managers. Please refer to Section 6.1 above.

6.3 Interviews With Occupants

The Site owners are also considered to be the Site occupants (where applicable). Please refer to Section 6.1 above.

6.4 Interview With Local Government Official

During the preparation of this assessment, multiple governmental agency representatives were interviewed regarding the availability of public records pertaining to the Site.

6.5 Interview With Others

No other interviews were conducted as a part of this assessment.

7.0 Findings, Opinion and Conclusions and Recommendations

CYA has performed a Phase I ESA, in conformance with the scope and limitations of the aforementioned ASTM Standard and 40 CFR Part 312 of the Otay Canyon Ranch/Lumina property located in the City of San Diego, California (County of San Diego APNs 646-093-07-00, -09-00, -10-00, -11-00 and -12-00 and APNs 646-100-17-00, -18-00, -20-00, -21-00, -38-00, -71-00 and -76-00). Any exceptions to, or deletions from, this practice are described in Section 8.0 of this report.

This assessment revealed two "recognized environmental conditions" and one development related constraint as described below and that do not require additional assessment or action at this time.

- The debris filled canyon in the southwestern portion of the Site (APNs 646-100-17-00 and -71-00) and the former reservoir areas at the -17, -20 and -76 parcels have been documented to contain some degree of impacted soil. In addition, areas of petroleum hydrocarbon stained soil were previously noted at the 646-100-20 and -38-00 parcels in areas of ASTs and drums. While the referenced impacted materials do not represent a significant risk to human health and the environment, such materials (if/when encountered) will be properly managed during future Site construction activities. The proper handling of such materials will be completed in accordance with the DEH-approved SMP for the Site.

- As stated multiple times in this report, the Site has been historically used for agricultural purposes. In addition, the presence of OCPs in soil at the Site has been well documented. During historical agricultural activities throughout the State of California, OCPs were commonly and legally applied during the normal course of agricultural operations. Such compounds have since been banned from production and use in the United States. Section 105215 of the California Health and Safety Code discusses the regulatory reporting of incidents that pertain to pesticide spills and accidental releases of pesticide products. Based on the regulatory and historical research completed during the preparation of this assessment and prior assessments, no information has been revealed that would lead CYA to believe that an accidental spill or release of pesticide products has occurred at the Site. In addition, neither stressed vegetation nor evidence of the storage of OCP based chemical products was observed on the Site during the Site reconnaissance or based on regulatory and historical research reviews. As such, the historical agricultural use of the Site is not considered to be a "recognized environmental condition" in connection with the Site. However, such soil is considered to be a development constraint in connection with the Site that must be properly managed in accordance with the DEH-approved SMP for the Site.

8.0 Deviations and Data Gaps

No deviations from the ASTM Standard or data gaps of significance were identified during the preparation of this Phase I ESA.

9.0 Additional Services

No additional services were completed by CYA during the preparation of this assessment.

References

"All Appropriate Inquiry" as necessary to satisfy the defenses available under 42 U.S.C. §§ 9607(b)(3), 9607(r)(1), and 9607(q), relying on definitions provided at 42 U.S.C. §§ 9601(35)(B); and as further explained in 40 CFR §§ 312.1 – 312.31.

ASTM International, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM Designation E1527-13, Published November 2013.

California State Water Resources Control Board, GeoTracker online database: http://www.geotracker.swrcb.ca.gov.

California State Water Resources Control Board, Water Quality Control Plan for the San Diego Basin (9), San Diego, California, Published 1994.

EDR Regulatory Database Report dated May 16, 2017.

NETROnline, Historical aerial photographs, and topographic maps.

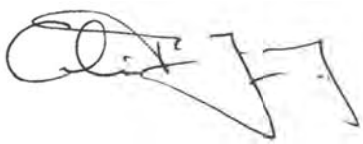
Prior Environmental Reports Referenced in Section 4.8.

State of California Department of Conservation, Division of Oil and Gas and Geothermal Resources: http://www.consrv.ca.gov/DOG/maps/index_map.htm.

USGS Topographic Map, Otay Mesa, California Quadrangle (2000).

Signatures and Qualifications of Environmental Professionals

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR 312.10. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject Site. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



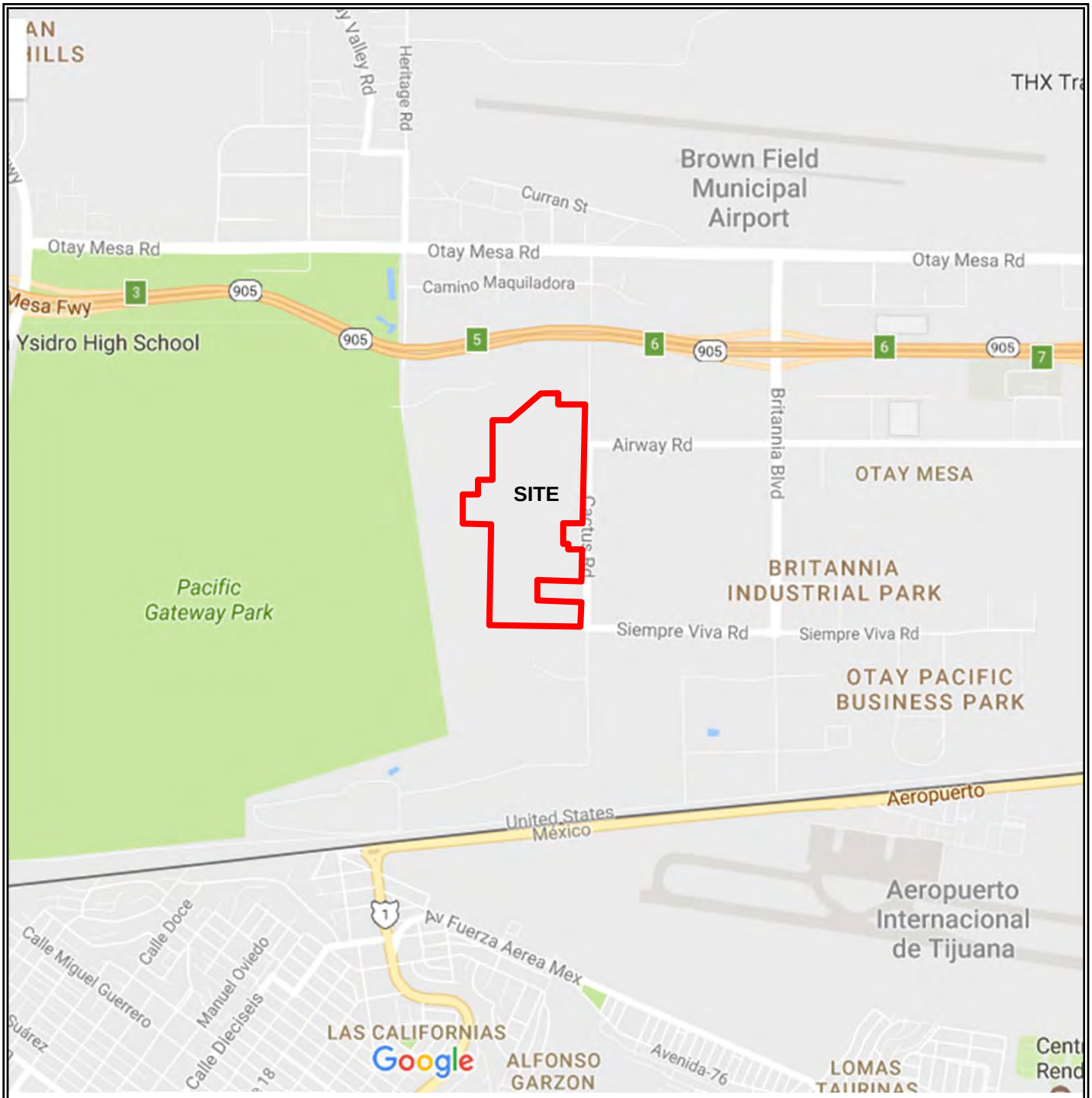
Colin P. Young, CIH
Principal

Daniel Weis, R.E.H.S.
Associate Environmental Scientist

Environmental professional qualifications are included in Appendix H.

APPENDICES

Appendix A
Vicinity Map and Topographic Map



0 1000 2000

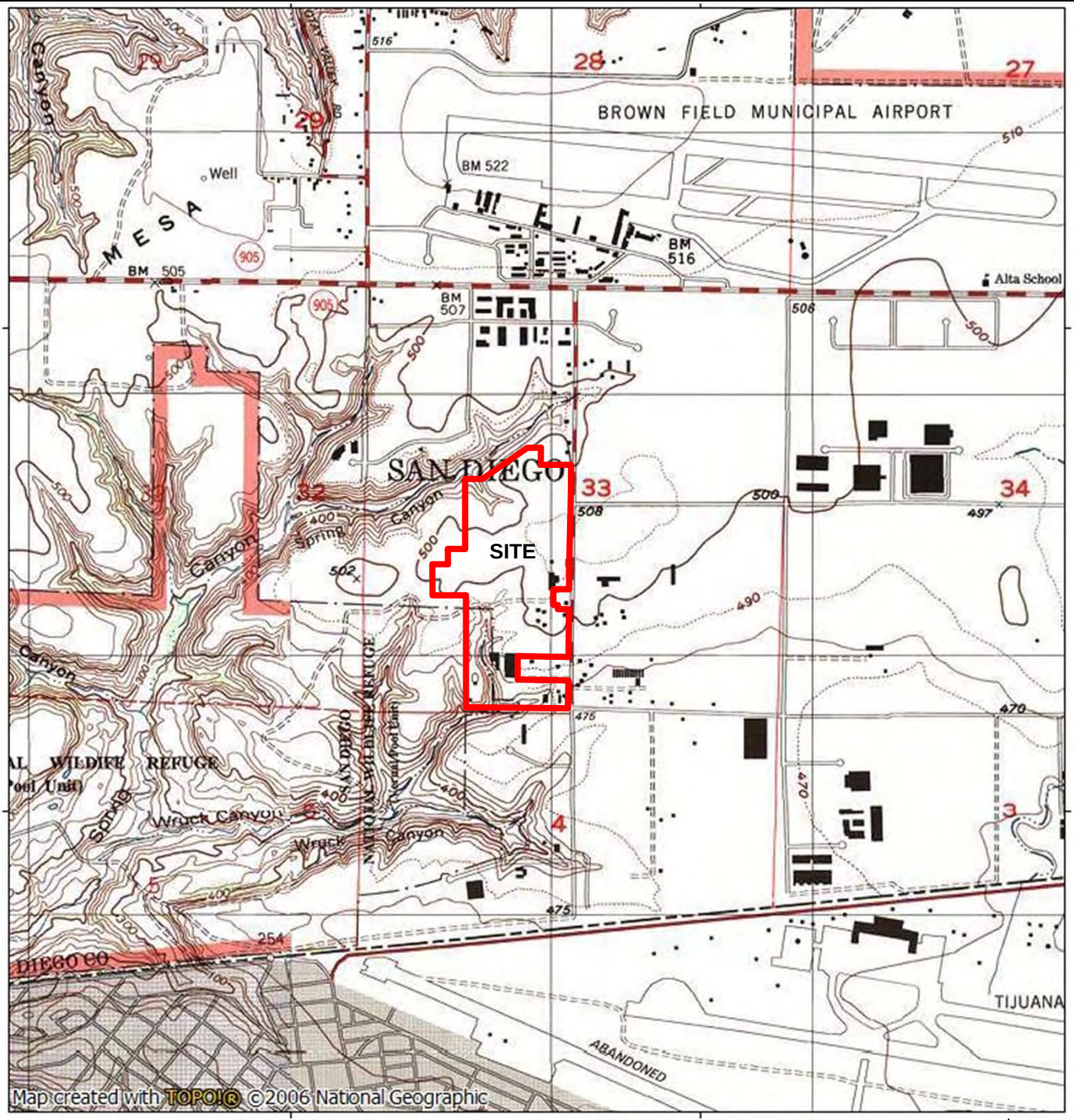
Approximate Scale in Feet

N

C YOUNG CY A ASSOCIATES

C Young Associates
1042 Skylark Drive
La Jolla, CA 92037

Vicinity Map
Otay Canyon Ranch / Lumina
San Diego, California



117°00.000' W WGS84 116°59.000' W

0 .5 1 MILES

N

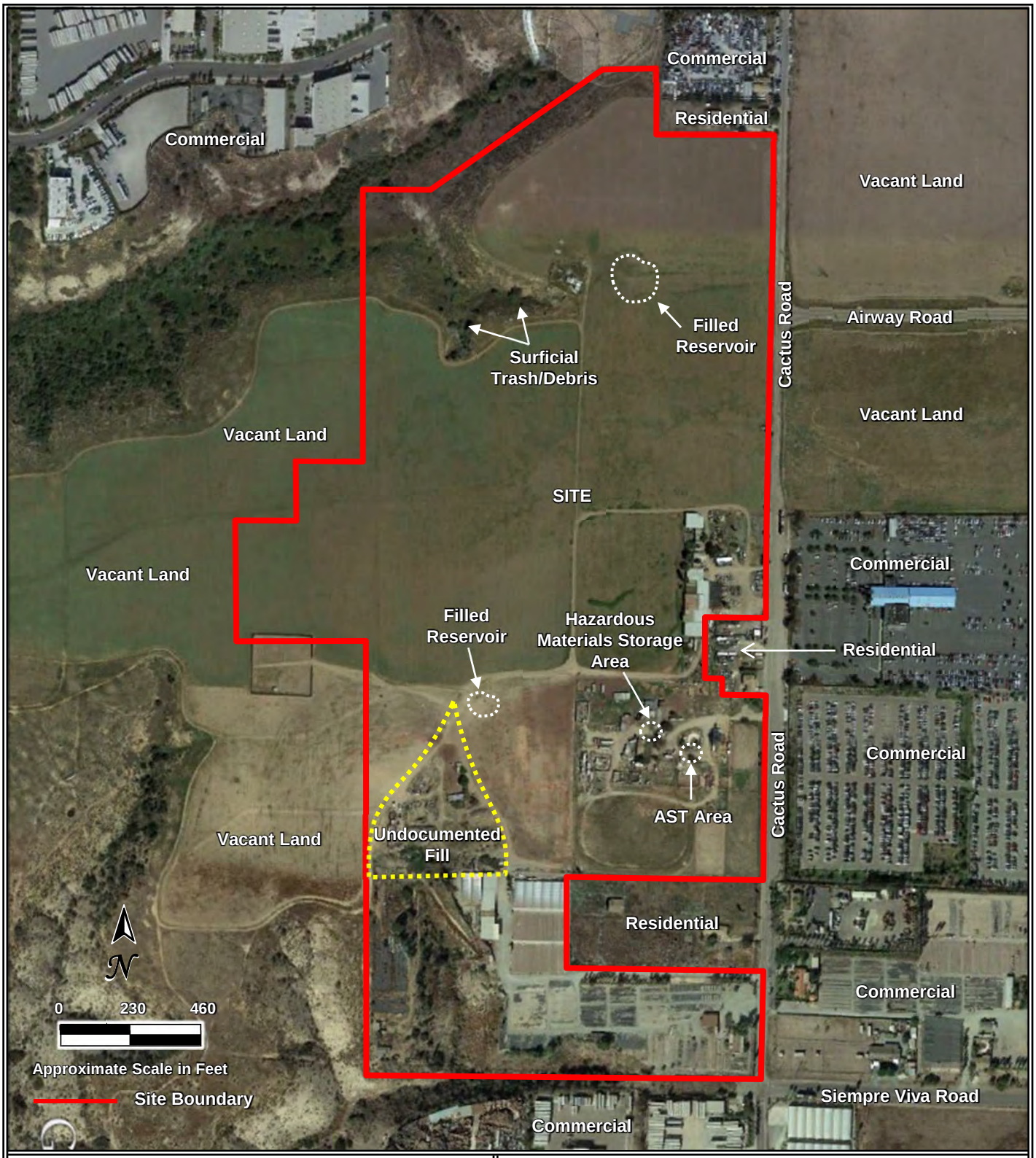
USGS Topographic Quadrangle Map
Otay Mesa, CA (2000)

C YOUNG ASSOCIATES

C Young Associates
1042 Skylark Drive
La Jolla, CA 92037

Topographic Map
Otay Canyon Ranch / Lumina
San Diego, California

Appendix B
Site Plans



C YOUNG CY A ASSOCIATES

C Young Associates
1042 Skylark Drive
La Jolla, CA 92037

Site Plan
Otay Canyon Ranch / Lumina
San Diego, California

C YOUNG CYA ASSOCIATES

C Young Associates
1042 Skylark Drive
La Jolla, CA 92037

Site Plan With Parcel Boundaries
Otay Canyon Ranch / Lumina
San Diego, California

Appendix C
Site Photographs

PHOTO 1.

View to the southwest from the northeast corner of the Site.

PHOTO 2.

View to the west from the eastern Site boundary.

PHOTO 3.

Dilapidated structures in the north-central portion of the Site.

PHOTO 4.

Canyon area in the northwestern portion of the Site.

PHOTO 5.

Debris in the canyon area in the northwestern portion of the Site.

PHOTO 6.

Debris in the canyon area in the northwestern portion of the Site.

PHOTO 7.

Structures in the eastern portion of the Site.

PHOTO 8.

Structures in the eastern portion of the Site.

PHOTO 9.

Canopy area in the eastern portion of the Site.

PHOTO 10.

Canopy area in the eastern portion of the Site.

PHOTO 11.

Aboveground storage tanks in the eastern portion of the Site.

PHOTO 12.

Drums, automobile remnants and other materials in the eastern portion of the Site.

PHOTO 13.

Southwestern portion of the Site (grazing area).

PHOTO 14.

Northern edge of the undocumented fill area in the southwestern portion of the Site.

PHOTO 15.

Structures on the undocumented fill area in the southwestern portion of the Site.

PHOTO 16.

Southern edge of the undocumented fill area in the southwestern portion of the Site.

PHOTO 17.

Southeastern corner of the Site.

PHOTO 18.

South boundary of the Site.

PHOTO 19.

Southern portion of the Site.

PHOTO 20.

Southern portion of the Site.

PHOTO 21.

Adjacent property to the northeastern corner of the Site.

PHOTO 22.

Residence adjacent to the northeastern corner of the Site.

PHOTO 23.

Western adjacent land.

PHOTO 24.

Adjoining residence (off-Site) along Cactus Road.

PHOTO 25.

Adjoining residence (off-Site) along Cactus Road.

PHOTO 26.

Adjacent southwest corner of Siempre Viva Road. Aboveground diesel tank is visible.

PHOTO 27.

Greenhouses located to the east of the Site across Cactus Road.

Appendix D
Title Report

First American Title Company

4380 La Jolla Village Dr, Suite 200
San Diego, CA 92122

Rita Mahoney
ColRich Communities
444 West Beech Street, Suite 300
San Diego, CA 92101

Customer Reference:	Lumina
Order Number:	NHSC-5464433 (06)
Title Officer:	Dianne Livingston
Phone:	(858)410-1303
Fax No.:	(714)913-6750
E-Mail:	dslivingston@firstam.com
Buyer:	
Property:	Vacant Land

PRELIMINARY REPORT

In response to the above referenced application for a policy of title insurance, this company hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a Policy or Policies of Title Insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an Exception below or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations of said Policy forms.

The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Exhibit A attached. **The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties.** Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Exhibit A. Copies of the policy forms should be read. They are available from the office which issued this report.

Please read the exceptions shown or referred to below and the exceptions and exclusions set forth in Exhibit A of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects, and encumbrances affecting title to the land.

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.

Dated as of May 17, 2017 at 7:30 A.M.

The form of Policy of title insurance contemplated by this report is:

To Be Determined

A specific request should be made if another form or additional coverage is desired.

Title to said estate or interest at the date hereof is vested in:

KAY-MARK, INC., A CALIFORNIA CORPORATION AS TO TRACT ONE

AGUSTIN MARTINEZ, TRUSTEE OF THE AGUSTIN MARTINEZ REVOCABLE TRUST DATED MAY 21, 2003, AS TO PARCEL A; AGUSTIN MARTINEZ, TRUSTEE OF THE AGUSTIN MARTINEZ REVOCABLE TRUST DATED MAY 21, 2003, AS TO PARCEL B; AGUSTIN MARTINEZ AS TRUSTEE OF THE AGUSTIN MARTINEZ REVOCABLE TRUST DATED MAY 21, 2003, AS TO AN UNDIVIDED FIFTY PERCENT (50%) INTEREST, AND ERNESTO MARTINEZ AND CARLOTA MARTINEZ, TRUSTEES OF THE MARTINEZ FAMILY TRUST DATED 06 APRIL 2004, AS TO AN UNDIVIDED FIFTY PERCENT (50%) INTEREST, AS TENANTS IN COMMON, AS TO PARCEL C AND AUGUSTIN MARTINEZ, TRUSTEE OF THE AGUSTIN MARTINEZ REVOCABLE TRUST DATED MAY 21, 2003, AS TO AN UNDIVIDED 1/3 INTEREST, ELENA MARTINEZ, TRUSTEE OF THE ELENA MARTINEZ LIVING TRUST (CREATED BY REVOCABLE TRUST AGREEMENT DATED FEBRUARY 13, 2008), AS TO AN UNDIVIDED 1/3 INTEREST, AND TONY VALENZUELA AND SARAH VALENZUELA, TRUSTEES OR SUCCESSOR TRUSTEE OF THE VALENZUELA LIVING TRUST (CREATED BY REVOCABLE TRUST AGREEMENT, AS TO ALL OF TRACT TWO

MARIA G. MARTINEZ, TRUSTEES OF THE MARIA G. MARTINEZ TRUST DATED APRIL 11, 1996 AS TO TRACT THREE

JANIS L. TEFTELLER AND JOYCE L. LANE, SUCCESSOR TRUSTEES OF THE WATSON FAMILY TRUST DATED NOVEMBER 4, 1993 - BYPASS TRUST (TAX ID NO. 27-6264812), SUBJECT TO ITEM NO. 31 AS TO TRACT FOUR

KYRIAKOS T. ATTISH AND AMIRA D. ATTISHA, CO-TRUSTEE OF UNDER ATTISHA FAMILY TRUST JULY 30, 1985 AS TO AN UNDIVIDED 7.5% INTEREST AND ASMAR D. ASMAR AND SALIMA ASMAR, HUSBAND

AND WIFE AS JOINT TENANTS AS TO AN UNDIVIDED 7.5% INTEREST AND MARY T. ROUMAYAH AS TO AN UNDIVIDED 6% INTEREST AND KAMAL ALSAWAF AND JENNY AL-SAWAF, HUSBAND AND WIFE AS JOINT TENANTS AS TO AN UNDIVIDED 7.5% INTEREST AND H.E.M.C. ENVIRONMENTAL MANAGEMENT CORP., AS TO AN UNDIVIDED 1.5% INTEREST AND SARAB ADAMO AND JABIR ADAMO, CO-TRUSTEES OF THE DECEDENT'S TRUST, SESI TRUST AGREEMENT DATED JANUARY 19, 1995, AS TO AN UNDIVIDED 70% INTEREST AS TO TRACT FIVE

The estate or interest in the land hereinafter described or referred to covered by this Report is:

A fee.

The Land referred to herein is described as follows:

(See attached Legal Description)

At the date hereof exceptions to coverage in addition to the printed Exceptions and Exclusions in said policy form would be as follows:

1. General and special taxes and assessments for the fiscal year 2017-2018, a lien not yet due or payable.

2. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.

The Following Matters Affect Tract Two:

3. An easement for public utilities and incidental purposes, recorded October 19, 1948 in Book 2985, Page 213 of Official Records.
   In Favor of: San Diego Gas and Electric Company
   Affects: Parcel C

4. An easement for public utilities and incidental purposes, recorded October 8, 1962 as Instrument No. 172947 of Official Records.
   In Favor of: San Diego Gas and Electric Company, a corporation
   Affects: As described therein.

5. An easement for public utilities and incidental purposes, recorded April 25, 1995 as Instrument No. 95-0172395 of Official Records.
   In Favor of: San Diego Gas and Electric Company
   Affects: Parcel C

   The location of the easement cannot be determined from record information.

6. An easement for public utilities and incidental purposes, recorded December 21, 2006 as Instrument No. 2006-0904762 of Official Records.
   In Favor of: San Diego Gas & Electric Company, a corporation
   Affects: The land

   The location of the easement cannot be determined from record information.

7. An option in favor of CR Otay Canyon Ranch Associates,LLC, a Delaware limited liability company as contained in or disclosed by a document recorded August 1, 2013 as Instrument No. 2013-0483469 of Official Records.

The Following Matters Affect Tract Three:

8. An easement for road and utility and incidental purposes, recorded July 16, 1969 as Instrument No. 127987 of Official Records.
   In Favor of: James Raymond Onate and Nancy I. Onate, husband and wife as joint tenants
   Affects: Said land

9. Any facts, rights, interests or claims that may exist or arise by reason of matters, if any, disclosed by that certain Record of Survey filed as No.11610.

10. An easement for storm drain and incidental purposes, recorded August 25, 1988 as Instrument No. 88-424999 of Official Records.
    In Favor of: The City of San Diego
    Affects: Said land

11. An unrecorded lease datedApril 1, 2000, executed by Maria G. Martinez, Trustee of the Maria G. Martinez Trust dated April 11, 1996 as lessor and Martinez Farms, Inc., a California corporation as lessee, as disclosed by a Memorandum of Lease recorded June 23, 2000 as Instrument No. 2000-0333720 and August 16, 2000 as Instrument No. 2000-0435703, both of Official Records.

Defects, liens, encumbrances or other matters affecting the leasehold estate, whether or not shown by the public records.

12. An option in favor of CR Otay Canyon Ranch Associates, LLC, a Delaware limited liability company as contained in or disclosed by a document recorded August 1, 2013 as Instrument No. 2013-0483471 of Official Records.

The Following Matters Affect Tract Four:

13. Any facts, rights, interests or claims that may exist or arise by reason of matters, if any, disclosed by that certain Record of Survey filed as Map No. 9169 .

14. An option in favor of CR Otay Canyon Ranch Associates, LLC, a Delaware limited liability company as contained in or disclosed by a document recorded June 26, 2015 as Instrument No. 2015-0332866 of Official Records.

The Following Matters Affect Tract Five:

15. An easement for poles and wires and incidental purposes, recorded August 6, 1953 as Book 4946, Page 141 of Official Records.
    In Favor of: San Diego Gas & Electric Company
    Affects: Within the West 6.0 feet of said land

16. The terms and provisions contained in the document entitled "Agreement Granting Right of Access and Settlement and Release" recorded September 9, 1993 as Instrument No. 1993-0594315 of Official Records.

17. The terms and provisions contained in the document entitled "City of San Diego - Site Development Permit No. 219697 SESI Landfill Closure (MMRP) - City Project No. 1980" recorded September 25, 2008 as Instrument No. 2008-0506863 of Official Records.

18. A certified copy of a judgment or an abstract thereof, recordedJULY 22, 2015 as 2015-0386806 of Official Records.

Court:	SUPERIOR COURT FOR THE STATE OF CALIFORNIA COUNTY OF SAN DIEGO
Case No.:	37-2014-00022657-CU-PT-CTL
Debtor:	H.E.M.C. ENVIRONMENTAL MANAGEMENT CORP., A CALIFORNIA CORPORATION
Creditor:	JABIR ADAMO
Amount:	$31,605.00 , and any other amounts due thereunder.

19. The terms and provisions contained in the document entitled "JUDGMENT APN:646-199-76-99" recorded JULY 22, 2015 as 2015-0386806 of Official Records.

20. An option in favor of CR Otay Canyon Ranch Associates, LLC, a Delaware limited liability company as contained in or disclosed by a document recorded August 12, 2015 as Instrument No. 2015-0427576 of Official Records.

The Following Matters Affect As Shown:

21. An easement forpublic highway (R.S. 60) and incidental purposes, recorded August 22, 1896 in Book 257, Page 37 of Deeds.
    In Favor of: San Diego County
    Affects: Parcel C of Tract Two and Three

22. The effect of a map purporting to show the land and other property, filedas Map No. 4035 of Record of Surveys.

    Affects: Tract One and Tract Two

The Following Matters Affect all Parcels:

23. A notice of assessment recorded August 25, 2004 as Instrument No. 04-0808880 of Official Records, executed by City of San Diego.

24. Any defects, liens, encumbrances or other matters which name parties with the same or similar names as Valenzuela, Tony; Valenzuela, Sarah; Martinez, Maria G.; Martinez, Augustin and Martinez, Ernesto. The name search necessary to ascertain the existence of such matters has not been completed. In order to complete this preliminary report or commitment, we will require a statement of information.

25. Any claim that the Title is subject to a trust or lien created under The Perishable Agricultural Commodities Act, 1930 (7 U.S.C. §§499a, et seq.) or the Packers and Stockyards Act (7 U.S.C. §§181 et seq.) or under similar state laws.

    Affects: Parcel D of Tract Two and Tract Three

26. Rights of the public in and to that portion of the land lying within any Road, Street, Alley or Highway.

    Affects: Tracts One, Two, Three and Five

27. Water rights, claims or title to water, whether or not shown by the public records.

    Affects: Tracts One, Four, Five and Parcels A, B and D of Tract Two

28. Rights of parties in possession.

    Affects: Tracts One, Three, Four and Parcels A, B and D of Tract Two

Prior to the issuance of any policy of title insurance, the Company will require:

29. With respect to the trust referred to in the vesting:
    a. A certification pursuant to Section 18100.5 of the California Probate Code in a form satisfactory to the Company.
    b. Copies of those excerpts from the original trust documents and amendments thereto which designate the trustee and confer upon the trustee the power to act in the pending transaction.
    c. Other requirements which the Company may impose following its review of the material required herein and other information which the Company may require.

30. With respect to H.E.M.C. Environmental Management and Kay-Mark, Inc., a California corporation:
    a. A certificate of good standing of recent date issued by the Secretary of State of the corporation's state of domicile.
    b. A certified copy of a resolution of the Board of Directors authorizing the contemplated transaction and designating which corporate officers shall have the power to execute on behalf of the corporation.
    c. Other requirements which the Company may impose following its review of the material required herein and other information which the Company may require.

INFORMATIONAL NOTES

Note: The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than the certain dollar amount set forth in any applicable arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. If you desire to review the terms of the policy, including any arbitration clause that may be included, contact the office that issued this Commitment or Report to obtain a sample of the policy jacket for the policy that is to be issued in connection with your transaction.

1. General and special taxes and assessments for the fiscal year 2016-2017.
   First Installment: $5,041.54, PAID
   Penalty: $0.00
   Second Installment: $5,041.54, PAID
   Penalty: $0.00
   Tax Rate Area: 08213
   A. P. No.: 646-100-21-00

   Affects: Tract One

2. General and special taxes and assessments for the fiscal year 2016-2017.
   First Installment: $410.58, PAID
   Penalty: $0.00
   Second Installment: $410.58, PAID
   Penalty: $0.00
   Tax Rate Area: 08213
   A. P. No.: 646-100-17-00

   Affects: Parcel A of Tract Two

3. General and special taxes and assessments for the fiscal year 2016-2017.
   First Installment: $629.97, PAID
   Penalty: $0.00
   Second Installment: $629.97, PAID
   Penalty: $0.00
   Tax Rate Area: 08213
   A. P. No.: 646-100-18-00

   Affects: Parcel B of Tract Two

4. General and special taxes and assessments for the fiscal year 2016-2017.
   First Installment: $4,282.10, PAID
   Penalty: $0.00
   Second Installment: $4,282.10, PAID
   Penalty: $0.00

Tax Rate Area: 08215
A. P. No.: 646-100-20-00

Affects: Parcel C of Tract Two

5. General and special taxes and assessments for the fiscal year 2016-2017.
First Installment: $9,026.82, PAID
Penalty: $0.00
Second Installment: $9,026.82, PAID
Penalty: $0.00
Tax Rate Area: 08215
A. P. No.: 646-100-38-00

Affects: Parcel D of Tract Two

6. General and special taxes and assessments for the fiscal year 2016-2017.
First Installment: $11,543.79, PAID
Penalty: $0.00
Second Installment: $11,543.79, PAID
Penalty: $0.00
Tax Rate Area: 08213
A. P. No.: 646-100-71-00

Affects: Tract Three

7. General and special taxes and assessments for the fiscal year 2016-2017.
First Installment: $39.26, PAID
Penalty: $0.00
Second Installment: $39.26, PAID
Penalty: $0.00
Tax Rate Area: 08213
A. P. No.: 646-093-07-00

Affects: Lot 48 of Tract Four

8. General and special taxes and assessments for the fiscal year 2016-2017.
First Installment: $39.26, PAID
Penalty: $0.00
Second Installment: $39.26, PAID
Penalty: $0.00
Tax Rate Area: 08213
A. P. No.: 646-093-10-00

Affects: Lot 49 of Tract Four

9. General and special taxes and assessments for the fiscal year 2016-2017.
First Installment: $39.26, PAID
Penalty: $0.00
Second Installment: $39.26, PAID
Penalty: $0.00
Tax Rate Area: 08213
A. P. No.: 646-093-09-00

Affects: Lot 50 of Tract Four

10. General and special taxes and assessments for the fiscal year 2016-2017.
First Installment: $39.26, PAID
Penalty: $0.00
Second Installment: $39.26, PAID
Penalty: $0.00
Tax Rate Area: 08213
A. P. No.: 646-093-12-00

Affects: Lot 71 of Tract Four

11. General and special taxes and assessments for the fiscal year 2016-2017.
First Installment: $39.26, PAID
Penalty: $0.00
Second Installment: $39.26, PAID
Penalty: $0.00
Tax Rate Area: 08213
A. P. No.: 646-093-11-00

Affects: Lot 72 of Tract Four

12. General and special taxes and assessments for the fiscal year 2016-2017.
First Installment: $1,218.48, PAID
Penalty: $0.00
Second Installment: $1,218.48, PAID
Penalty: $0.00
Tax Rate Area: 08215
A. P. No.: 646-100-76-00

Affects: Tract Five

13. The property covered by this report is vacant land.

Affects: Tracts One, Four, Five and Parcels A and B of Tract Two

14. According to the latest available equalized assessment roll in the office of the county tax assessor, there is located on the land a(n) Single Family Residence known as 2160 Cactus Road, San Diego, California.

Affects: Parcel C of Tract Two

15. According to the latest available equalized assessment roll in the office of the county tax assessor, there is located on the land a(n) Commercial Structure known as 2240 and 2440 Cactus Road, San Diego, California.

Affects: Parcel D of Tract Two and Tract Tree

16. According to the public records, there has been no conveyance of the land within a period of twenty-four months prior to the date of this report, except as follows:

None

17. We find no open deeds of trust. Escrow please confirm before closing.

The map attached, if any, may or may not be a survey of the land depicted hereon. First American expressly disclaims any liability for loss or damage which may result from reliance on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of the title insurance policy, if any, to which this map is attached.

First American Title Company
1250 Corona Pointe Court, Suite 200
Corona, CA 92879
(951)256-5880
Fax - (909)476-2401

WIRE INSTRUCTIONS
for
First American Title Company, Demand/Draft Sub-Escrow Deposits
Riverside County, California

First American Trust, FSB
5 First American Way
Santa Ana, CA 92707
Banking Services: (877) 600-9473

ABA 122241255
Credit to First American Title Company
Account No. 3097840000

Reference Title Order Number 5464433 and Title Officer Dianne Livingston

Please wire the day before recording.

LEGAL DESCRIPTION

Real property in the City of San Diego, County of San Diego, State of California, described as follows:

TRACT ONE: (APN: 646-100-21-00)

NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 1 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO UNITED STATES GOVERNMENT SURVEY, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAID SAN DIEGO COUNTY.

TRACT TWO:

PARCEL A: (APN: 646-100-17-00)

THE NORTHWEST QUARTER OF SOUTHEAST QUARTER OF SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 1 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO OFFICIAL PLAT THEREOF.

PARCEL B: (APN: 646-100-18-00)

THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 1 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO OFFICIAL PLAT THEREOF.

PARCEL C: (APN: 646-100-20-00)

THE EAST HALF OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 1 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO OFFICIAL PLAT THEREOF.

EXCEPTING THEREFROM THE EASTERLY 200 FEET OF THE SOUTHERLY 200 FEET THEREOF.

PARCEL D: (APN: 646-100-38-00)

ALL OF THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 1 WEST, SAN BERNARDINO MERIDIAN, ACCORDING TO UNITED STATES GOVERNMENT SURVEY APPROVED SEPTEMBER 11, 1879.

EXCEPTING THEREFROM THE NORTH 55.00 FEET (MEASURED ALONG THE EASTERLY LINE) OF THE EAST 145.00 FEET (MEASURED ALONG THE NORTHERLY LINE) OF THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 33.

TRACT THREE: (APN: 646-100-71-00)

THE SOUTH ½ OF THE SOUTHEAST ¼ OF THE SOUTHWEST ¼ OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 1 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO OFFICIAL PLAT THEREOF.

EXCEPTING THEREFROM THE NORTH ½ OF THE SOUTHEAST ¼ OF THE SOUTHEAST ¼ OF THE

SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 1 WEST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO OFFICIAL PLAT THEREOF.

TRACT FOUR: (APN: 646-093-07-00, 646-093-09-00, 646-093-10-00 THROUGH 646-093-12-00)

LOTS 48, 49, 50, 71 AND 72 OF BELVIDERE, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 1267, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, JUNE 13, 1910.

TRACT FIVE: (APN: 646-100-76-00)

PARCEL B OF CERTIFICATE OF COMPLIANCE RECORDED APRIL 29, 2011 AS INSTRUMENT NO. 2011-0224418 OF OFFICIAL RECORDS, DESCRIBED AS FOLLOWS:

THAT PORTION OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 1 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO OFFICIAL PLAT THEREOF, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF SAID SOUTHEAST QUARTER;

THENCE ALONG THE WEST LINE THEREOF NORTH 00°56'04" EAST, A DISTANCE OF 278.00 FEET;

THENCE LEAVING SAID WEST LINE SOUTH 89"03'56" EAST, A DISTANCE OF 224.37 FEET;

THENCE NORTH 52°21'08" EAST, A DISTANCE OF 716.26 FEET;

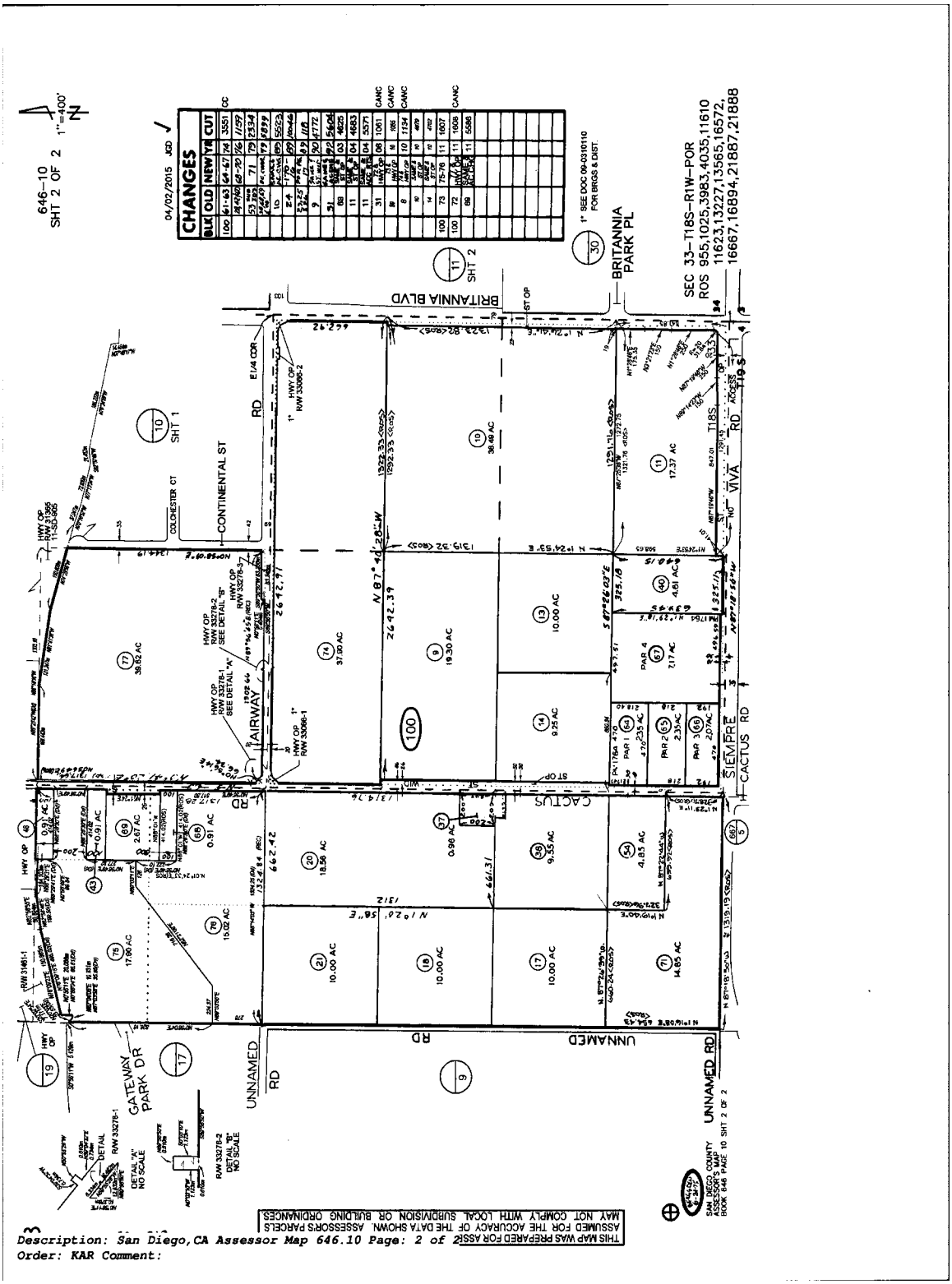
THENCE SOUTH 89'03'11" EAST, A DISTANCE OF 126.00 FEET TO THE INTERSECTION WITH THE WEST LINE OF THE EASTERLY 414.00 FEET OF SAID SOUTHEAST QUARTER;

THENCE ALONG SAID WEST LINE OF THE EASTERLY 414.00 FEET SOUTH 00°56'49" WEST. A DISTANCE OF 222.10 FEET TO THE SOUTH LINE OF THE NORTHERLY 800.00 FEET OF SAID SOUTHEAST QUARTER;

THENCE ALONG SAID SOUTH LINE OF THE NORTHERLY 800.00 FEET SOUTH 88°28'30" EAST. A DISTANCE OF 414.02 FEET TO THE EAST LINE OF SAID SOUTHEAST QUARTER;

THENCE ALONG SAID EAST LINE SOUTH 00°56'49" WEST. A DISTANCE OF 517.50 FEET TO THE CENTER QUARTER CORNER OF SECTION 33;

THENCE ALONG THE SOUTH LINE OF SAID SOUTHEAST QUARTER NORTH 88°14'03" WEST, A DISTANCE OF 1324.25 FEET TO THE POINT OF BEGINNING.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CONTINENTAL ST
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SIEMPRE
CACTUS RD
VIVA
UNNAMED RD
GATEWAY PARK DR
THIS MAP WAS PREPARED FOR ASSESSOR'S PARCELS
ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCELS
MAY NOT COMPLY WITH LOCAL SUBDIVISION OR BUILDING ORDINANCES
Description: San Diego,CA Assessor Map 646.10 Page: 2 of 2
Order: KAR Comment:

NOTICE

Section 12413.1 of the California Insurance Code, effective January 1, 1990, requires that any title insurance company, underwritten title company, or controlled escrow company handling funds in an escrow or sub-escrow capacity, wait a specified number of days after depositing funds, before recording any documents in connection with the transaction or disbursing funds. This statute allows for funds deposited by wire transfer to be disbursed the same day as deposit. In the case of cashier's checks or certified checks, funds may be disbursed the next day after deposit. In order to avoid unnecessary delays of three to seven days, or more, please use wire transfer, cashier's checks, or certified checks whenever possible.

EXHIBIT A
LIST OF PRINTED EXCEPTIONS AND EXCLUSIONS (BY POLICY TYPE)

CLTA STANDARD COVERAGE POLICY – 1990

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in no loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy; or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

EXCEPTIONS FROM COVERAGE - SCHEDULE B, PART I

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
   Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public, records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

CLTA/ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE (12-02-13)

EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
   a. building;
   b. zoning;
   c. land use;
   d. improvements on the Land;
   e. land division; and
   f. environmental protection.
   This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
4. Risks:
   a. that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
   b. that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;
   c. that result in no loss to You; or
   d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.
5. Failure to pay value for Your Title.
6. Lack of a right:
   a. to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   b. in streets, alleys, or waterways that touch the Land.
   This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.
8. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
9. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows:
For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.
The deductible amounts and maximum dollar limits shown on Schedule A are as follows:

	Your Deductible Amount	Our Maximum Dollar Limit of Liability
Covered Risk 16:	1% of Policy Amount Shown in Schedule A or $2,500 (whichever is less)	$10,000
Covered Risk 18:	1% of Policy Amount Shown in Schedule A or $5,000 (whichever is less)	$25,000
Covered Risk 19:	1% of Policy Amount Shown in Schedule A or $5,000 (whichever is less)	$25,000
Covered Risk 21:	1% of Policy Amount Shown in Schedule A or $2,500 (whichever is less)	$5,000

2006 ALTA LOAN POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;

(iii) the subdivision of land; or
(iv) environmental protection;

or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.

2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

[Except as provided in Schedule B - Part II,[t[or T]his policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

[PART I

[The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

PART II

In addition to the matters set forth in Part I of this Schedule, the Title is subject to the following matters, and the Company insures against loss or damage sustained in the event that they are not subordinate to the lien of the Insured Mortgage:]

2006 ALTA OWNER'S POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

(i) the occupancy, use, or enjoyment of the Land;
(ii) the character, dimensions, or location of any improvement erected on the Land;
(iii) the subdivision of land; or
(iv) environmental protection;

or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.

2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
(a) created, suffered, assumed, or agreed to by the Insured Claimant;
(b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
(c) resulting in no loss or damage to the Insured Claimant;
(d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 or 10); or
(e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.
4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
(a) a fraudulent conveyance or fraudulent transfer, or
(b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:
[The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.
7. [Variable exceptions such as taxes, easements, CC&R's, etc. shown here.]

ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (07-26-10)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

(i) the occupancy, use, or enjoyment of the Land;
(ii) the character, dimensions, or location of any improvement erected on the Land;
(iii) the subdivision of land; or
(iv) environmental protection;

or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d),

14 or 16.

2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.
10. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
11. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

First American Title

Privacy Information

We Are Committed to Safeguarding Customer Information

In order to better serve your needs now and in the future, we may ask you to provide us with certain information. We understand that you may be concerned about what we will do with such information - particularly any personal or financial information. We agree that you have a right to know how we will utilize the personal information you provide to us. Therefore, together with our subsidiaries we have adopted this Privacy Policy to govern the use and handling of your personal information.

Applicability

This Privacy Policy governs our use of the information that you provide to us. It does not govern the manner in which we may use information we have obtained from any other source, such as information obtained from a public record or from another person or entity. First American has also adopted broader guidelines that govern our use of personal information regardless of its source. First American calls these guidelines its Fair Information Values.

Types of Information

Depending upon which of our services you are utilizing, the types of nonpublic personal information that we may collect include:

- Information we receive from you on applications, forms and in other communications to us, whether in writing, in person, by telephone or any other means;
- Information about your transactions with us, our affiliated companies, or others; and
- Information we receive from a consumer reporting agency.

Use of Information

We request information from you for our own legitimate business purposes and not for the benefit of any nonaffiliated party. Therefore, we will not release your information to nonaffiliated parties except: (1) as necessary for us to provide the product or service you have requested of us; or (2) as permitted by law. We may, however, store such information indefinitely, including the period after which any customer relationship has ceased. Such information may be used for any internal purpose, such as quality control efforts or customer analysis. We may also provide all of the types of nonpublic personal information listed above to one or more of our affiliated companies. Such affiliated companies include financial service providers, such as title insurers, property and casualty insurers, and trust and investment advisory companies, or companies involved in real estate services, such as appraisal companies, home warranty companies and escrow companies. Furthermore, we may also provide all the information we collect, as described above, to companies that perform marketing services on our behalf, on behalf of our affiliated companies or to other financial institutions with whom we or our affiliated companies have joint marketing agreements.

Former Customers

Even if you are no longer our customer, our Privacy Policy will continue to apply to you.

Confidentiality and Security

We will use our best efforts to ensure that no unauthorized parties have access to any of your information. We restrict access to nonpublic personal information about you to those individuals and entities who need to know that information to provide products or services to you. We will use our best efforts to train and oversee our employees and agents to ensure that your information will be handled responsibly and in accordance with this Privacy Policy and First American's Fair Information Values. We currently maintain physical, electronic, and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

Information Obtained Through Our Web Site

First American Financial Corporation is sensitive to privacy issues on the Internet. We believe it is important you know how we treat the information about you we receive on the Internet.

In general, you can visit First American or its affiliates' Web sites on the World Wide Web without telling us who you are or revealing any information about yourself. Our Web servers collect the domain names, not the e-mail addresses, of visitors. This information is aggregated to measure the number of visits, average time spent on the site, pages viewed and similar information. First American uses this information to measure the use of our site and to develop ideas to improve the content of our site.

There are times, however, when we may need information from you, such as your name and email address. When information is needed, we will use our best efforts to let you know at the time of collection how we will use the personal information. Usually, the personal information we collect is used only by us to respond to your inquiry, process an order or allow you to access specific account/profile information. If you choose to share any personal information with us, we will only use it in accordance with the policies outlined above.

Business Relationships

First American Financial Corporation's site and its affiliates' sites may contain links to other Web sites. While we try to link only to sites that share our high standards and respect for privacy, we are not responsible for the content or the privacy practices employed by other sites.

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Fair Information Values

Fairness We consider consumer expectations about their privacy in all our businesses. We only offer products and services that assure a favorable balance between consumer benefits and consumer privacy.

Public Record We believe that an open public record creates significant value for society, enhances consumer choice and creates consumer opportunity. We actively support an open public record and emphasize its importance and contribution to our economy.

Use We believe we should behave responsibly when we use information about a consumer in our business. We will obey the laws governing the collection, use and dissemination of data.

Accuracy We will take reasonable steps to help assure the accuracy of the data we collect, use and disseminate. Where possible, we will take reasonable steps to correct inaccurate information. When, as with the public record, we cannot correct inaccurate information, we will take all reasonable steps to assist consumers in identifying the source of the erroneous data so that the consumer can secure the required corrections.

Education We endeavor to educate the users of our products and services, our employees and others in our industry about the importance of consumer privacy. We will instruct our employees on our fair information values and on the responsible collection and use of data. We will encourage others in our industry to collect and use information in a responsible manner.

Security We will maintain appropriate facilities and systems to protect against unauthorized access to and corruption of the data we maintain.

Appendix E
Regulatory Database Report

Otay Canyon Ranch
Otay Canyon Ranch
San Diego, CA 92154

Inquiry Number: 4938535.2s
May 16, 2017

The EDR Radius Map™ Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

GeoCheck - Not Requested

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) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

OTAY CANYON RANCH
SAN DIEGO, CA 92154

COORDINATES

Latitude (North):	32.5616160 - 32˚ 33' 41.81''
Longitude (West):	116.9903030 - 116˚ 59' 25.09''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	500910.3
UTM Y (Meters):	3602499.8
Elevation:	504 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5622896 OTAY MESA, CA
Version Date:	2012
West Map:	5622818 IMPERIAL BEACH, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140805
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
OTAY CANYON RANCH
SAN DIEGO, CA 92154

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	MARTINEZ RANCH	2160 CACTUS RD	SAN DIEGO CO. SAM, AST	Higher	1 ft.
A2	2160 CATUS ROAD, SAN	2160 CATUS ROAD	ENF	Higher	1 ft.
A3	MARTINEZ RANCH	2160 CACTUS RD	FINDS	Higher	1 ft.
A4	MARTINEZ RANCH	2160 CACTUS RD	RGA LUST	Higher	1 ft.
B5	ADESA SAN DIEGO	2175 CACTUS RD	San Diego Co. HMMD	Higher	1 ft.
A6	MARTINEZ RANCH	2160 CACTUS RD	SLIC, San Diego Co. HMMD	Higher	1 ft.
C7	MARTINEZ FARM	2440 CACTUS RD	AST	Lower	1 ft.
C8	MARTINEZ FARM-AWM	2440 CACTUS RD	FINDS	Lower	1 ft.
C9	OTAY CANYON RANCH	2440 CACTUS ROAD	SLIC, San Diego Co. HMMD, ENF	Lower	1 ft.
10	SESI PROPERTY LANDFI	1902 CACTUS ROAD	NPDES	Higher	1 ft.
C11	OTAY CANYON RANCH	2440 CACTUS ROAD	FINDS	Lower	1 ft.
B12		2177 CACTUS RD	EDR Hist Auto	Higher	6, 0.001, SSE
B13		2177 CACTUS RD	EDR Hist Auto	Higher	55, 0.010, SSE
B14		2175 CACTUS RD	EDR Hist Auto	Higher	72, 0.014, SSE
15		1938 CACTUS RD	EDR Hist Auto	Lower	245, 0.046, NE
16	TRIPP SALVAGE LANDFI	900 CACTUS ROAD	SLIC, LDS	Lower	526, 0.100, NNE
17	SUPERIOR READY MIX C	6935 CACTUS CT	AST, San Diego Co. HMMD, NPDES, WDS	Lower	696, 0.132, South
18	L.A. TRANSPORT	6903 CACTUS CT	AST, San Diego Co. HMMD	Lower	874, 0.166, South
19	CACTUS ROAD- AKA TRI	1700-1902 CACTUS ROA	SWF/LF	Lower	884, 0.167, North
20	LAMKIN CORP	6530 GATEWAY PARK DR	RCRA-SQG, HAZNET	Higher	1127, 0.213, West
21	ASSOCIATED READY MIX	1696 CACTUS RD	AST, NPDES	Higher	1205, 0.228, NNE
D22	OTAY MESA ROAD WIDEN	NONE OTAY MESA RD	SLIC	Higher	1914, 0.363, NNE
23	BORDERPOINT BUSINESS	6754 CALLE DE LINEA,	SLIC	Lower	2014, 0.381, SSW
D24	U S BORDER PATROL/BR	7060 BOEING ST	SAN DIEGO CO. SAM, SLIC, San Diego Co. HMMD	Higher	2042, 0.387, NNE
D25	TRIP LANDFILL/CACTUS	NONE W CACTUS S OTAY	SAN DIEGO CO. SAM, SLIC, San Diego Co. HMMD	Higher	2047, 0.388, NNE
26	PIPER RANCH BUS PARK	LA MEDIA RD	SAN DIEGO CO. SAM, SLIC, San Diego Co. HMMD	Higher	2119, 0.401, NNW
27	MARTINEZ OUTDOOR STO	2770 MARTINEZ RANCH	SAN DIEGO CO. SAM, SLIC	Lower	2120, 0.402, SSE
28	PIPER RANCH BUS PARK	6464 OTAY MESA ROAD	LUST, SLIC, HIST CORTESE	Higher	2357, 0.446, NNW
E29	CITY OF SAN DIEGO-BR	1424 CONTINENTAL ST	LUST	Higher	2570, 0.487, NNE
E30	LANCAIR CORP	1424 CONTINENTAL ST	LUST, SAN DIEGO CO. SAM, SLIC, AST, San Diego Co....	Higher	2570, 0.487, NNE
31	2380 BRITANNIA BLVD.	2380 BRITANNIA	SAN DIEGO CO. SAM, SLIC, San Diego Co. HMMD	Lower	2611, 0.495, SE
32	CORNER OF OTAY MESA	ROAD	Notify 65	Higher	2740, 0.519, NW
33	BRITANNIA BOULEVARD	2133, 2155, 2177, 21	ENVIROSTOR, VCP, DEED	Lower	3029, 0.574, East
34	BROWN FIELD NAAS		ENVIROSTOR	Higher	3173, 0.601, NNW
35	HONEYWELL INC	2055 DUBLIN DR	RCRA-LQG, ENVIROSTOR, AST, San Diego Co. HMMD,...	Lower	4057, 0.768, East

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

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

NPL ..... National Priority 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
SEMS ..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

EXECUTIVE SUMMARY

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE..... State Response Sites

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
UST..... Active UST Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Properties
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

WMUDS/SWAT..... Waste Management Unit Database
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
HIST Cal-Sites..... Historical Calsites Database
SCH..... School Property Evaluation Program
CDL..... Clandestine Drug Labs
Toxic Pits..... Toxic Pits Cleanup Act Sites
US CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

SWEEPS UST..... SWEEPS UST Listing

HIST UST	Hazardous Substance Storage Container Database
CA FID UST	Facility Inventory Database

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

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
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
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
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
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information

EXECUTIVE SUMMARY

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
EMI	Emissions Inventory Data
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
UIC	UIC Listing
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	Recovered Government Archive Solid Waste Facilities List

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 RCRA generators list

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 12/12/2016 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LAMKIN CORP	***6530 GATEWAY PARK DR***	***W 1/8 - 1/4 (0.213 mi.)***	***20***	***50***

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 10/31/2016 has revealed that there are 3 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BROWN FIELD NAAS Facility Id: 80000947 Status: Inactive - Needs Evaluation		NNW 1/2 - 1 (0.601 mi.)	34	169

Lower Elevation	Address	Direction / Distance	Map ID	Page
BRITANNIA BOULEVARD Facility Id: 37070001 Status: Certified O&M - Land Use Restrictions Only	***2133, 2155, 2177, 21***	***E 1/2 - 1 (0.574 mi.)***	***33***	***161***
HONEYWELL INC Facility Id: 71003124 Status: Inactive - Needs Evaluation	***2055 DUBLIN DR***	***E 1/2 - 1 (0.768 mi.)***	***35***	***170***

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.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CACTUS ROAD- AKA TRI	1700-1902 CACTUS ROA	N 1/8 - 1/4 (0.167 mi.)	19	47
Database: SWF/LF (SWIS), Date of Government Version: 02/13/2017 Facility ID: 37-CR-0011 Operational Status: Closed Regulation Status: Unpermitted				

State and tribal leaking storage tank lists

SAN DIEGO CO. SAM: 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.

A review of the SAN DIEGO CO. SAM list, as provided by EDR, and dated 03/23/2010 has revealed that there are 7 SAN DIEGO CO. SAM sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARTINEZ RANCH Case Number: H99064-001 Facility Status: Preliminary Assessment	***2160 CACTUS RD***	***0 - 1/8 (0.000 mi.)***	***A1***	***8***
U S BORDER PATROL/BR Case Number: H21496-001 Facility Status: Closed Case	***7060 BOEING ST***	***NNE 1/4 - 1/2 (0.387 mi.)***	***D24***	***57***
TRIP LANDFILL/CACTUS Case Number: H32115-001 Facility Status: Preliminary Assessment	***NONE W CACTUS S OTAY***	***NNE 1/4 - 1/2 (0.388 mi.)***	***D25***	***59***
PIPER RANCH BUS PARK Case Number: H26521-001 Case Number: H26521-002 Case Number: H26521-003 Facility Status: Preliminary Assessment Facility Status: Closed Case	***LA MEDIA RD***	***NNW 1/4 - 1/2 (0.401 mi.)***	***26***	***60***
LANCAIR CORP Case Number: H10618-001 Case Number: H10618-002 Case Number: H10618-003 Case Number: H10618-004 Case Number: H10618-005 **Additional key fields are available in the Map Findings section* Facility Status: Preliminary Assessment Facility Status: Remedial Investigation Facility Status: Closed Case	***1424 CONTINENTAL ST***	***NNE 1/4 - 1/2 (0.487 mi.)***	***E30***	***65***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARTINEZ OUTDOOR STO Case Number: H39743-001 Facility Status: Preliminary Assessment	***2770 MARTINEZ RANCH***	***SSE 1/4 - 1/2 (0.402 mi.)***	***27***	***61***
2380 BRITANNIA BLVD.	***2380 BRITANNIA***	***SE 1/4 - 1/2 (0.495 mi.)***	***31***	***158***

Case Number: H39739-001
Facility Status: Closed Case

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 3 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PIPER RANCH BUS PARK	***6464 OTAY MESA ROAD***	***NNW 1/4 - 1/2 (0.446 mi.)***	***28***	***62***
Database: LUST REG 9, Date of Government Version: 03/01/2001				
Database: LUST, Date of Government Version: 03/13/2017				
Status: Completed - Case Closed				
Closed Date: 2/21/95				
Status: Case Closed				
Global Id: T0607302117				
Case Number: 9UT3356				
CITY OF SAN DIEGO-BR	1424 CONTINENTAL ST	NNE 1/4 - 1/2 (0.487 mi.)	E29	64
Database: LUST REG 9, Date of Government Version: 03/01/2001				
Status: Preliminary site assessment underway				
Case Number: 9UT3904				
LANCAIR CORP	***1424 CONTINENTAL ST***	***NNE 1/4 - 1/2 (0.487 mi.)***	***E30***	***65***
Database: LUST REG 9, Date of Government Version: 03/01/2001				
Database: LUST, Date of Government Version: 03/13/2017				
Status: Completed - Case Closed				
Status: Open - Site Assessment				
Closed Date: 8/16/99				
Closed Date: 3/4/87				
Closed Date: 4/21/87				
Status: Preliminary site assessment underway				
Status: Case Closed				
Global Id: T0607301159				
Global Id: T0607300600				
Global Id: T0607301157				
Global Id: T0607301165				
Global Id: T0607301167				
**Additional key fields are available in the Map Findings section*				
Case Number: 9UT1467				
Case Number: 9UT1933				
Case Number: 9UT1942				
Case Number: 9UT1796				
Case Number: 9UT1797				
**Additional key fields are available in the Map Findings section*				

EXECUTIVE SUMMARY

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 SLIC list, as provided by EDR, has revealed that there are 12 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARTINEZ RANCH	***2160 CACTUS RD***	***0 - 1/8 (0.000 mi.)***	***A6***	***19***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Global Id: T06019770242				
OTAY MESA ROAD WIDEN	NONE OTAY MESA RD	NNE 1/4 - 1/2 (0.363 mi.)	D22	56
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Global Id: T0608166754				
U S BORDER PATROL/BR	***7060 BOEING ST***	***NNE 1/4 - 1/2 (0.387 mi.)***	***D24***	***57***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Global Id: T0608177377				
TRIP LANDFILL/CACTUS	***NONE W CACTUS S OTAY***	***NNE 1/4 - 1/2 (0.388 mi.)***	***D25***	***59***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Global Id: T0608106121				
PIPER RANCH BUS PARK	***LA MEDIA RD***	***NNW 1/4 - 1/2 (0.401 mi.)***	***26***	***60***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Global Id: T0608196257				
PIPER RANCH BUS PARK	***6464 OTAY MESA ROAD***	***NNW 1/4 - 1/2 (0.446 mi.)***	***28***	***62***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Global Id: T0608115400				
LANCAIR CORP	***1424 CONTINENTAL ST***	***NNE 1/4 - 1/2 (0.487 mi.)***	***E30***	***65***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Global Id: T0608160843				

Lower Elevation	Address	Direction / Distance	Map ID	Page
OTAY CANYON RANCH	***2440 CACTUS ROAD***	***0 - 1/8 (0.000 mi.)***	***C9***	***22***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Open - Site Assessment Global Id: T10000006065				
TRIPP SALVAGE LANDFI	***900 CACTUS ROAD***	***NNE 0 - 1/8 (0.100 mi.)***	***16***	***29***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Open - Inactive Global Id: SL209274202				
BORDERPOINT BUSINESS	6754 CALLE DE LINEA,	SSW 1/4 - 1/2 (0.381 mi.)	23	56
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Open - Active Global Id: T10000010202				
MARTINEZ OUTDOOR STO	***2770 MARTINEZ RANCH***	***SSE 1/4 - 1/2 (0.402 mi.)***	***27***	***61***
Database: SLIC, Date of Government Version: 03/13/2017				

Facility Status: Completed - Case Closed
Global Id: T10000001605

2380 BRITANNIA BLVD.	***2380 BRITANNIA***	***SE 1/4 - 1/2 (0.495 mi.)***	***31***	***158***

Database: SLIC, Date of Government Version: 03/13/2017
Facility Status: Completed - Case Closed
Global Id: T10000001097

State and tribal registered storage tank lists

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 07/06/2016 has revealed that there are 5 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARTINEZ RANCH	***2160 CACTUS RD***	***0 - 1/8 (0.000 mi.)***	***A1***	***8***
ASSOCIATED READY MIX	***1696 CACTUS RD***	***NNE 1/8 - 1/4 (0.228 mi.)***	***21***	***52***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARTINEZ FARM	2440 CACTUS RD	0 - 1/8 (0.000 mi.)	C7	21
SUPERIOR READY MIX C	***6935 CACTUS CT***	***S 1/8 - 1/4 (0.132 mi.)***	***17***	***30***
L.A. TRANSPORT	***6903 CACTUS CT***	***S 1/8 - 1/4 (0.166 mi.)***	***18***	***38***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

San Diego Co. HMMD: The Hazardous Materials Management Division Database comes from the Hazardous Materials Management Division.

A review of the San Diego Co. HMMD list, as provided by EDR, and dated 10/05/2016 has revealed that there are 3 San Diego Co. HMMD sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ADESA SAN DIEGO	2175 CACTUS RD	0 - 1/8 (0.000 mi.)	B5	11
Record ID: DEH2002-HUPFP-129754				
MARTINEZ RANCH	***2160 CACTUS RD***	***0 - 1/8 (0.000 mi.)***	***A6***	***19***

Lower Elevation	Address	Direction / Distance	Map ID	Page
OTAY CANYON RANCH	***2440 CACTUS ROAD***	***0 - 1/8 (0.000 mi.)***	***C9***	***22***

Other Ascertainable Records

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 04/04/2017 has revealed that there are 3 FINDS sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARTINEZ RANCH	2160 CACTUS RD	0 - 1/8 (0.000 mi.)	A3	10

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARTINEZ FARM-AWM	2440 CACTUS RD	0 - 1/8 (0.000 mi.)	C8	22
OTAY CANYON RANCH	2440 CACTUS ROAD	0 - 1/8 (0.000 mi.)	C11	28

ENF: A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

A review of the ENF list, as provided by EDR, and dated 12/06/2016 has revealed that there are 2 ENF sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
2160 CATUS ROAD, SAN Status: Active Status: Draft Facility Id: 791309	2160 CATUS ROAD	0 - 1/8 (0.000 mi.)	A2	8

Lower Elevation	Address	Direction / Distance	Map ID	Page
OTAY CANYON RANCH Status: Active Status: Historical Facility Id: 792205	***2440 CACTUS ROAD***	***0 - 1/8 (0.000 mi.)***	***C9***	***22***

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 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PIPER RANCH BUS PARK Reg Id: 9UT3356	***6464 OTAY MESA ROAD***	***NNW 1/4 - 1/2 (0.446 mi.)***	***28***	***62***
LANCAIR CORP	***1424 CONTINENTAL ST***	***NNE 1/4 - 1/2 (0.487 mi.)***	***E30***	***65***

Reg Id: 9UT3904
Reg Id: 9UT692
Reg Id: 9UT712
Reg Id: 9UT1796
Reg Id: 9UT1797
**Additional key fields are available in the Map Findings section*

NPDES: A listing of NPDES permits, including stormwater.

A review of the NPDES list, as provided by EDR, and dated 11/14/2016 has revealed that there is 1 NPDES site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SESI PROPERTY LANDFI Facility Status: Terminated	1902 CACTUS ROAD	0 - 1/8 (0.000 mi.)	10	25

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 12/16/2016 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
CORNER OF OTAY MESA	ROAD	NW 1/2 - 1 (0.519 mi.)	32	161

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 are 4 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	2177 CACTUS RD	SSE 0 - 1/8 (0.001 mi.)	B12	28
Not reported	2177 CACTUS RD	SSE 0 - 1/8 (0.010 mi.)	B13	28
Not reported	2175 CACTUS RD	SSE 0 - 1/8 (0.014 mi.)	B14	29

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	1938 CACTUS RD	NE 0 - 1/8 (0.046 mi.)	15	29

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST: 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.

A review of the RGA LUST list, as provided by EDR, has revealed that there is 1 RGA LUST site within approximately 0.001 miles of the target property.

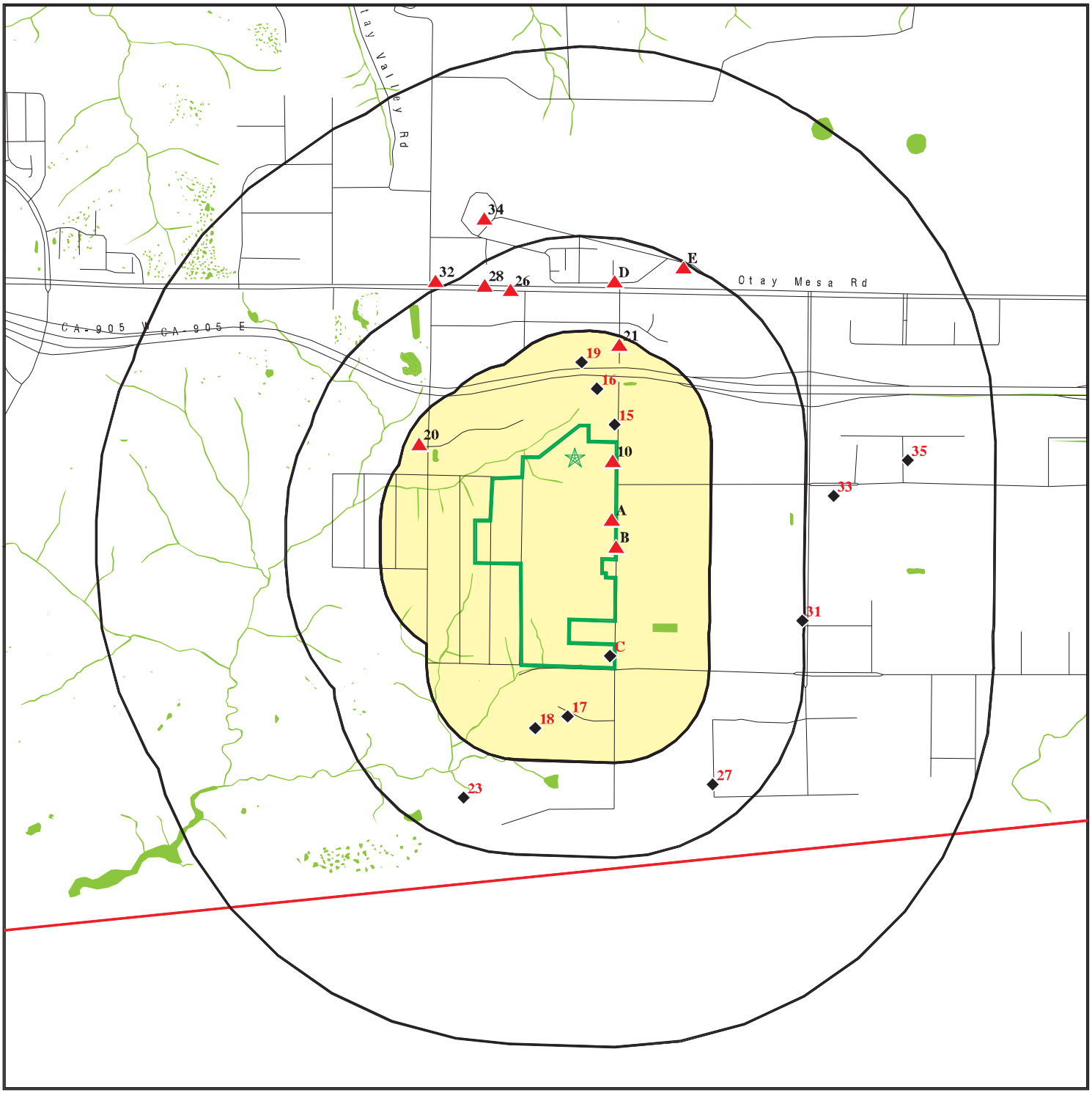
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARTINEZ RANCH	2160 CACTUS RD	0 - 1/8 (0.000 mi.)	A4	10

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
OTAY MESA CID DRUMS	SEMS
SDG&E - OTAY LAKES SUBSTATION	San Diego Co. HMMD

OVERVIEW MAP - 4938535.2S



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

0 1/4 1/2 1 Miles

Indian Reservations BIA

County Boundary

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: Otay Canyon Ranch	CLIENT: C Young Associates
ADDRESS: Otay Canyon Ranch San Diego CA 92154	CONTACT: Dan Weis INQUIRY #: 4938535.2s
LAT/LONG: 32.561616 / 116.990303	DATE: May 16, 2017 3:26 pm

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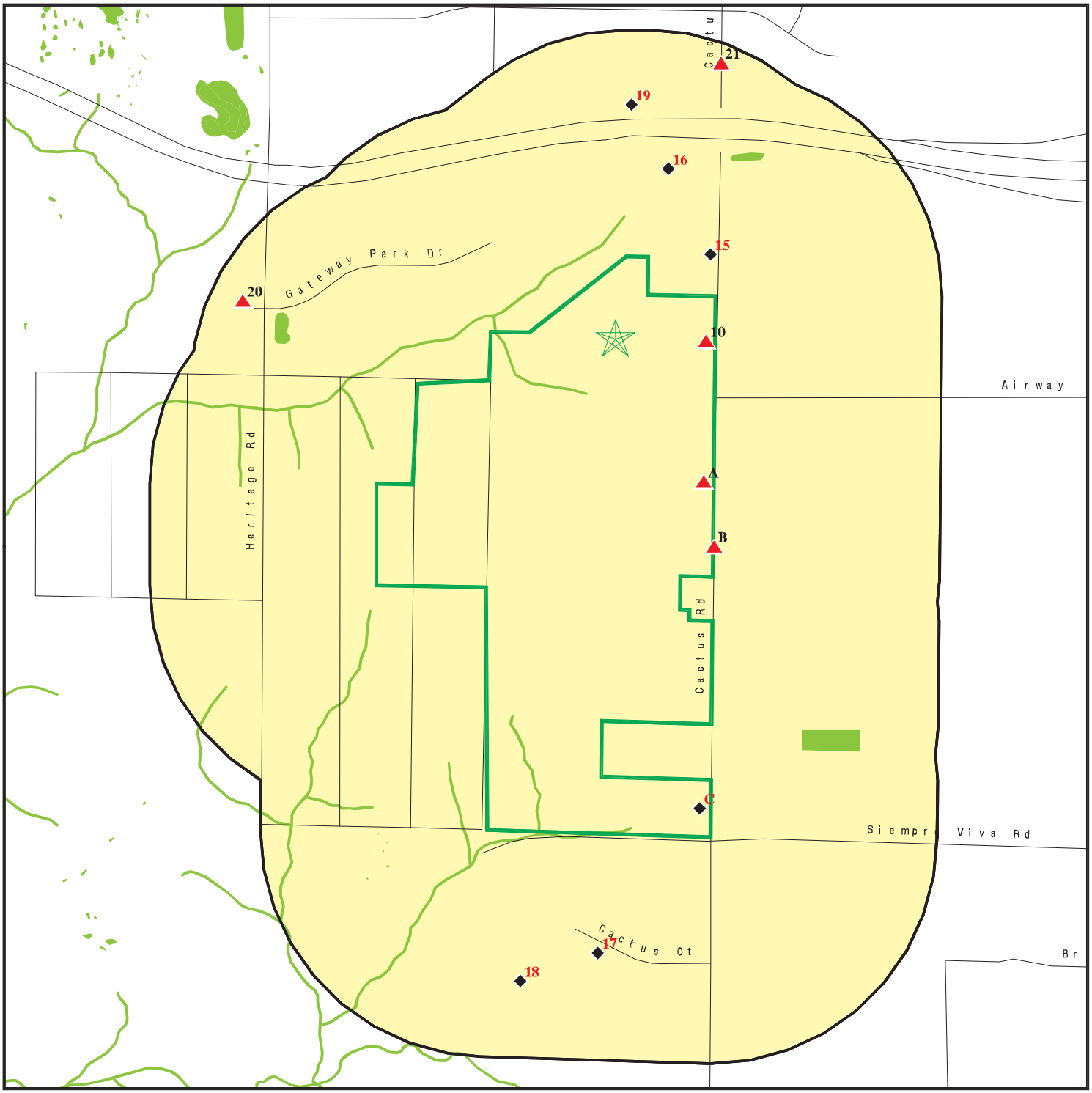
DETAIL MAP - 4938535.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/8 1/4 1/2 Miles

Indian Reservations BIA

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: Otay Canyon Ranch	CLIENT: C Young Associates
ADDRESS: Otay Canyon Ranch San Diego CA 92154	CONTACT: Dan Weis INQUIRY #: 4938535.2s
LAT/LONG: 32.561616 / 116.990303	DATE: May 16, 2017 3:27 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		0	0	0	0	NR	0
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		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
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		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	3	NR	3
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								
SAN DIEGO CO. SAM	0.500		1	0	6	NR	NR	7

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
LUST	0.500		0	0	3	NR	NR	3
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		3	0	9	NR	NR	12
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		2	3	NR	NR	NR	5
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
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	0	0	NR	NR	0
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
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
San Diego Co. HMMD	0.001		3	NR	NR	NR	NR	3
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	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
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		0	0	NR	NR	NR	0
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		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
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		3	NR	NR	NR	NR	3
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
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
DRYCLEANERS	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
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		2	NR	NR	NR	NR	2
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	2	NR	NR	2
HWP	1.000		0	0	0	0	NR	0
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		1	NR	NR	NR	NR	1
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
UIC	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
WIP	0.250		0	0	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		4	NR	NR	NR	NR	4
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		1	NR	NR	NR	NR	1
- Totals --		0	20	5	20	4	0	49

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **MARTINEZ RANCH** **SAN DIEGO CO. SAM** **S106879146**
2160 CACTUS RD **AST** **N/A**
< 1/8 **SAN DIEGO, CA 92154**
1 ft.

Site 1 of 5 in cluster A

Relative:
Higher

Actual:
514 ft.

SAN DIEGO CO. SAM:

Case Number:	H99064-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**XV**
Facility Type:	Soils Only
Facility Status:	Preliminary Assessment
Date:	11/2/2004
Date Began:	11/5/2004

AST:

Certified Unified Program Agencies:	San Diego
Owner:	MARTINEZ RANCH
Total Gallons:	2610
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

A2 **2160 CATUS ROAD, SAN DIEGO, CA., 92154** **ENF** **S113408381**
2160 CATUS ROAD **N/A**
< 1/8 **SAN DIEGO, CA 92154**
1 ft.

Site 2 of 5 in cluster A

Relative:
Higher

Actual:
514 ft.

ENF:

Region:	9
Facility Id:	791309
Agency Name:	Martinez, Jesus
Place Type:	Irrigated Land
Place Subtype:	Irrigated Lands
Facility Type:	Not reported
Agency Type:	Privately-Individual
# Of Agencies:	1

2160 CATUS ROAD, SAN DIEGO, CA., 92154 (Continued) **S113408381**

Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	IRRI
Program Category1:	IRRI
Program Category2:	IRRI
# Of Programs:	1
WDID:	Not reported
Reg Measure Id:	389257
Reg Measure Type:	Enrollee
Region:	9
Order #:	R9-2007-0104W4
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Draft
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	21 - Non Billable Waivers
Direction/Voice:	Passive
Enforcement Id(EID):	389382
Region:	9

2160 CATUS ROAD, SAN DIEGO, CA., 92154 (Continued) **S113408381**

Order / Resolution Number:	Not reported
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	01/31/2013
Adoption/Issuance Date:	01/31/2013
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	SEL 01/31/2013 for Martinez, Jesus
Description:	Not reported
Program:	IRRI
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

A3 **MARTINEZ RANCH** **FINDS** **1023238335**
2160 CACTUS RD **N/A**
< 1/8 **SAN DIEGO, CA 92154**
1 ft.

Site 3 of 5 in cluster A

Relative: **Higher**

FINDS:

Registry ID: 110065259419

Actual: **514 ft.**

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access
1 additional FINDS: record(s) in the EDR Site Report.

A4 **MARTINEZ RANCH** **RGA LUST** **S114648406**
2160 CACTUS RD **N/A**
< 1/8 **SAN DIEGO, CA**
1 ft.

Site 4 of 5 in cluster A

Relative: **Higher**

RGA LUST:

2007	MARTINEZ RANCH	2160 CACTUS RD
2006	MARTINEZ RANCH	2160 CACTUS RD
2005	MARTINEZ RANCH	2160 CACTUS RD

Actual: **514 ft.**

B5 **ADESA SAN DIEGO** **San Diego Co. HMMD** **S119096476**
2175 CACTUS RD **N/A**
< 1/8 **SAN YSIDRO, CA 92173**
1 ft.

Site 1 of 4 in cluster B

Relative:
Higher

Actual:
511 ft.

HMMD SAN DIEGO:

Permit Number:	129754
Business Type:	Not reported
EPA Id Number:	CAL000346874
APN:	Not reported
Last HMMD Inspection:	Not reported
Facility Telephone:	619-661-5565
Permit Status:	Permit Renewed
Permit Expiration:	Not reported
Date Last Updated:	10/15/2016
Facility Owner:	Not reported
Facility Address:	2175 CACTUS RD, SAN DIEGO, CA 92154
Facility City:	Not reported
Facility State:	Not reported
Facility Zip:	Not reported
UST Owner:	N
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	N
Generate Medical Waste:	Not reported

Waste:

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0116594
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2016-10-15T00:35:34.000
Chemical Name:	Not reported
Common Name:	STINGER WHEEL BRIGHTENER
Case Number:	Not reported

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0116595
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2016-10-15T00:35:34.000
Chemical Name:	Not reported
Common Name:	STINGER QUICK GLASS
Case Number:	Not reported

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0116596
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2016-10-15T00:35:34.000
Chemical Name:	Liquefied petroleum gas

ADESA SAN DIEGO (Continued) **S119096476**

Common Name: PROPANE
Case Number: 74-98-6

Record ID: DEH2002-HUPFP-129754
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HCHEM-0116597
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2016-10-15T00:35:34.000
Chemical Name: Not reported
Common Name: STINGER BLUE POWER DEGREASER
Case Number: Not reported

Record ID: DEH2002-HUPFP-129754
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HCHEM-0116598
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2016-10-15T00:35:34.000
Chemical Name: Not reported
Common Name: STINGER LACQUER THINNER
Case Number: Not reported

Record ID: DEH2002-HUPFP-129754
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HCHEM-0116599
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2016-10-15T00:35:34.000
Chemical Name: Not reported
Common Name: STINGER SHOW ROOM SHINE
Case Number: Not reported

Record ID: DEH2002-HUPFP-129754
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HCHEM-0116600
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2016-10-15T00:35:34.000
Chemical Name: Not reported
Common Name: STINGER PREMIUM VOC
Case Number: Not reported

Record ID: DEH2002-HUPFP-129754
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HCHEM-0116601
Trade Secret: N
Hazardous Material Type: Pure
Last Updated: 2016-10-15T00:35:34.000
Chemical Name: Not reported
Common Name: MOTOR OIL
Case Number: Not reported

ADESA SAN DIEGO (Continued) **S119096476**

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0116602
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2016-10-15T00:35:34.000
Chemical Name:	Gasoline
Common Name:	GASOLINE
Case Number:	86290-81-5

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HWAST-0097779
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2016-10-15T00:35:35.000
Chemical Name:	Not reported
Common Name:	MOTOR OIL (USED)
Case Number:	Not reported

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0070119
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2016-08-03T02:30:50.000
Chemical Name:	BRITE SPOT
Common Name:	BRITE SPOT
Case Number:	Not reported

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0070120
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2016-08-03T02:30:50.000
Chemical Name:	AUCTION WHEEL CLEANER
Common Name:	AUCTION WHEEL CLEANER
Case Number:	Not reported

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0070121
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2016-08-03T02:30:50.000
Chemical Name:	KLEAR GLASS CLEANER
Common Name:	KLEAR GLASS CLEANER
Case Number:	Not reported

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed

ADESA SAN DIEGO (Continued) **S119096476**

Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0070122
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2016-08-03T02:30:50.000
Chemical Name:	Liquefied petroleum gas
Common Name:	PROPANE
Case Number:	68476-85-7

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0070123
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2016-08-03T02:30:50.000
Chemical Name:	GALAXY
Common Name:	GALAXY
Case Number:	Not reported

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0070124
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2016-08-03T02:30:50.000
Chemical Name:	OK CAR SOAP
Common Name:	OK CAR SOAP
Case Number:	Not reported

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0070125
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2016-08-03T02:30:50.000
Chemical Name:	Blue Max
Common Name:	Blue Max
Case Number:	Not reported

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0070126
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2016-08-03T02:30:50.000
Chemical Name:	Stinger VOC Premium Dressing
Common Name:	Wheel Dressing
Case Number:	Not reported

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0070127

ADESA SAN DIEGO (Continued) **S119096476**

Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2016-08-03T02:30:50.000
Chemical Name:	Lacquer Thinner
Common Name:	Lacquer Thinner
Case Number:	Not reported

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HWAST-0054054
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2016-08-03T02:30:50.000
Chemical Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Common Name:	OILY ABSORBENT
Case Number:	Not reported

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HWAST-0054055
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2016-08-03T02:30:50.000
Chemical Name:	WASTE 221 Waste oil and mixed oil
Common Name:	Waste Oil
Case Number:	Not reported

Record ID:	DEH2002-HUPFP-129754
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HWAST-0054056
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2016-08-03T02:30:50.000
Chemical Name:	Oily Water Waste
Common Name:	Oily Water
Case Number:	Not reported

IAP:

Permit Number:	129754
Update Date:	11/02/2012
Case Number:	Not reported
Name:	AUCTION WHEEL CLEANER
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Permit Number:	129754
Update Date:	11/02/2012
Case Number:	Not reported
Name:	BRITE SPOT
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE

ADESA SAN DIEGO (Continued) **S119096476**

Hazardous Categories 2: Not reported

Permit Number: 129754
Update Date: 11/02/2012
Case Number: Not reported
Name: GALAXY
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: CHRONIC
Hazardous Categories 2: Not reported

Permit Number: 129754
Update Date: 11/02/2012
Case Number: MIXTURE
Name: HYDROFLUORIC ACID, SULFURIC ACID, 2 BUTOXY ETHANOL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: CHRONIC

Permit Number: 129754
Update Date: 11/02/2012
Case Number: Not reported
Name: KLEAR GLASS CLEANER
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Permit Number: 129754
Update Date: 11/02/2012
Case Number: Not reported
Name: OK CAR SOAP
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: CHRONIC
Hazardous Categories 2: Not reported

Permit Number: 129754
Update Date: 11/02/2012
Case Number: 68476-85-7
Name: PROPANE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Permit Number: 129754
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 132 AQUEOUS SOL'N WITH METALS
Other Information: SUMP WASTE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 129754

ADESA SAN DIEGO (Continued) **S119096476**

Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 213 HYDROCARBON SOLVENTS
Other Information: PARTS WASHER
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 129754
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: AES. ALSO HAULS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 129754
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information: OILY ABSORBENT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 129754
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 444 USED BATTERIES
Other Information: JULIO-C-BATTERIES
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 129754
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

VAP:
Permit Number: 129754
Update Date: 11/02/2012
Inspection Date: 06/10/2009
Violation Code: 6HV1013
Violation: HMBP NOT AVAILABLE FOR REVIEW
Violation Citation: Copy of HMBP not onsite for inspector's review. 25505(e)
Activity: ACTIVE

Permit Number: 129754
Update Date: 11/02/2012
Inspection Date: 03/29/2004
Violation Code: 6HV1003

ADESA SAN DIEGO (Continued) **S119096476**

Violation: HMBP NOT AMENDED W/IN 30 DAYS
Violation Citation: Business plan was not amended within 30 days for a 100% quantity increase, new disclosable materials or a change in business info. HSC 25505
Activity: ACTIVE

Permit Number: 129754
Update Date: 11/02/2012
Inspection Date: 05/29/2012
Violation Code: 6HV1004
Violation: HMBP NOT SUBMITTED TO HMD
Violation Citation: Hazardous Materials Handler has not submitted a completed Business Plan to the HMMD. HSC 25505(a)
Activity: ACTIVE

Permit Number: 129754
Update Date: 11/02/2012
Inspection Date: 05/29/2012
Violation Code: 6HV0224
Violation: MISMANAGED EMPTY CONTAINERS >5GALS.
Violation Citation: Failed to mark date on empty container larger than 5 gallons and/or manage it within one year. 66261.7(e) & (f).
Activity: ACTIVE

Permit Number: 129754
Update Date: 11/02/2012
Inspection Date: 05/29/2012
Violation Code: 6HV0227
Violation: HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation: Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity: ACTIVE

Permit Number: 129754
Update Date: 11/02/2012
Inspection Date: 09/13/2005
Violation Code: 6HV1006
Violation: HMBP: INVENTORY INADEQUATE
Violation Citation: Business Plan inventory does not list all hazardous materials on site in disclosable quantities. HSC 25504(a),25503.5
Activity: ACTIVE

Permit Number: 129754
Update Date: 11/02/2012
Inspection Date: 09/13/2005
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: ACTIVE

Permit Number: 129754
Update Date: 11/02/2012
Inspection Date: 09/13/2005
Violation Code: 6HV1011
Violation: TRAINING RECORDS NOT AVAILABLE

ADESA SAN DIEGO (Continued) **S119096476**

Violation Citation:	Personnel training records not available. 19 CCR 2732
Activity:	ACTIVE
Permit Number:	129754
Update Date:	11/02/2012
Inspection Date:	03/09/2007
Violation Code:	6HV1002
Violation:	HMBP NOT ESTABISHED/IMPLEMENTED.
Violation Citation:	Hazardous materials handler has not established/implemented a business plan. HSC 25503.5(a)
Activity:	ACTIVE

A6 **MARTINEZ RANCH** **SLIC** **S110497822**
2160 CACTUS RD **San Diego Co. HMMD** **N/A**
< 1/8 **SAN DIEGO, CA 92154**
1 ft.

Site 5 of 5 in cluster A

Relative:
Higher

Actual:
514 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	10/29/2012
Global Id:	T06019770242
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H99064-001
Latitude:	32.559274
Longitude:	-116.989567
Case Type:	Cleanup Program Site
Case Worker:	SW
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Refer to "Site Maps/Documents" for Admin Closure Memo

Click here to access the California GeoTracker records for this facility:

HMMD SAN DIEGO:

Permit Number:	211670
Business Type:	6HK26
EPA Id Number:	Not reported
APN:	646-100-20-00
Last HMMD Inspection:	01/08/2010
Facility Telephone:	619-666-3837
Permit Status:	OPEN
Permit Expiration:	04/30/2013
Date Last Updated:	11/02/2012
Facility Owner:	JESUS MARTINEZ
Facility Address:	2160 CACTUS RD
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92154
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported

MARTINEZ RANCH (Continued) **S110497822**

Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

IAP:
Permit Number: 211670
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: USED OIL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 211670
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information: OILY RAGS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 211670
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

VAP:
Permit Number: 211670
Update Date: 11/02/2012
Inspection Date: 01/08/2010
Violation Code: 6HV0227
Violation: HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation: Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity: ACTIVE

Permit Number: 211670
Update Date: 11/02/2012
Inspection Date: 01/08/2010
Violation Code: 6HV0131
Violation: UPF Permit NOT OBTAINED for HAZWASTE
Violation Citation: A Unified Program Facility permit has not been obtained for the generation of hazardous waste. 68.905
Activity: ACTIVE

Permit Number: 211670
Update Date: 11/02/2012
Inspection Date: 01/08/2010
Violation Code: 6HV0132
Violation: EPA ID NUMBER NOT OBTAINED/MAINTAINED

MARTINEZ RANCH (Continued) **S110497822**

Violation Citation:	Generator of hazardous waste has not obtained/maintained an EPA identification number. CCR 66262.12(a)
Activity:	ACTIVE

Permit Number:	211670
Update Date:	11/02/2012
Inspection Date:	01/08/2010
Violation Code:	6HV0224
Violation:	MISMANAGED EMPTY CONTAINERS >5GALS.
Violation Citation:	Failed to mark date on empty container larger than 5 gallons and/or manage it within one year. 66261.7(e) & (f).
Activity:	ACTIVE

Permit Number:	211670
Update Date:	11/02/2012
Inspection Date:	01/08/2010
Violation Code:	6HV0407
Violation:	EMPLOYEE TRAINING NOT ADEQUATE
Violation Citation:	Employee training program for small quantity generator of hazardous waste is inadequate. CFR 262.34(d)(5)(iii)
Activity:	ACTIVE

Permit Number:	199064
Business Type:	6HKAG
EPA Id Number:	Not reported
APN:	646-100-20-00
Last HMMD Inspection:	03/08/2010
Facility Telephone:	619-661-5415
Permit Status:	EXEM
Permit Expiration:	09/25/2002
Date Last Updated:	11/02/2012
Facility Owner:	JESUS MARTINEZ
Facility Address:	2160 CACTUS RD
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92154-8001
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Y
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

C7 **MARTINEZ FARM** **AST** **S105539847**
2440 CACTUS RD **N/A**
< 1/8 **SAN DIEGO, CA**
1 ft.

Site 1 of 4 in cluster C

Relative:
Lower

Actual:
481 ft.

AST:

Certified Unified Program Agencies:	San Diego
Owner:	MARTINEZ FARM
Total Gallons:	4400
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported

MARTINEZ FARM (Continued) **S105539847**

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

C8 **MARTINEZ FARM-AWM** **FINDS** **1016714279**
2440 CACTUS RD **N/A**
< 1/8 **SAN DIEGO, CA 92154**
1 ft.

Site 2 of 4 in cluster C

Relative: Lower

FINDS:

Registry ID: 110057055083

Actual: 481 ft.

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access
1 additional FINDS: record(s) in the EDR Site Report.

C9 **OTAY CANYON RANCH** **SLIC** **S113408412**
2440 CACTUS ROAD **San Diego Co. HMMD** **N/A**
< 1/8 **SAN DIEGO, CA 92154** **ENF**
1 ft.

Site 3 of 4 in cluster C

Relative: Lower

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	07/22/2014
Global Id:	T10000006065
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	DEH2014-LSAM-000254
Latitude:	32.5615024475569
Longitude:	-116.989670278296
Case Type:	Cleanup Program Site
Case Worker:	JC

Actual: 481 ft.

OTAY CANYON RANCH (Continued) **S113408412**

Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	This is a new VAP case. This section will be updated as data is recieved.

Click here to access the California GeoTracker records for this facility:

HMMD SAN DIEGO:

Permit Number:	199068
Business Type:	6HKAG
EPA Id Number:	Not reported
APN:	646-100-71-00
Last HMMD Inspection:	10/27/2010
Facility Telephone:	619-661-6571
Permit Status:	EXEM
Permit Expiration:	09/30/2002
Date Last Updated:	11/02/2012
Facility Owner:	RICHARD MARTINEZ
Facility Address:	2440 CACTUS RD
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92154
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Y
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

ENF:

Region:	9
Facility Id:	792205
Agency Name:	Not reported
Place Type:	Plants and Trees
Place Subtype:	Nursery/Hydroponics
Facility Type:	Not reported
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported

OTAY CANYON RANCH (Continued) **S113408412**

# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	IRRI
Program Category1:	IRRI
Program Category2:	IRRI
# Of Programs:	1
WDID:	Not reported
Reg Measure Id:	384940
Reg Measure Type:	Waiver
Region:	9
Order #:	R9-2007-0104W4
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	02/05/2014
Effective Date:	10/10/2007
Expiration/Review Date:	Not reported
Termination Date:	02/05/2014
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	G
Fee Code:	21 - Non Billable Waivers
Direction/Voice:	Active
Enforcement Id(EID):	389625
Region:	9
Order / Resolution Number:	R9-2013-0060
Enforcement Action Type:	Notice of Violation
Effective Date:	04/09/2013
Adoption/Issuance Date:	04/09/2013
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	NOV R9-2013-0060, Illegal discharge & Req for info
Description:	Failure to file NOI for coverage under Agricultural Waiver, or failure to file Report of Waste Discharge.
Program:	IRRIWAIVER
Latest Milestone Completion Date:	Not reported

OTAY CANYON RANCH (Continued) **S113408412**

# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

---

10 **SESI PROPERTY LANDFILL CLOSURE PROJECT** **NPDES** **S109457917**
1902 CACTUS ROAD **N/A**
< 1/8 **OTAY MESA, CA 92154**
1 ft.

Relative:
Higher

Actual:
504 ft.

NPDES:

Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	0
Region:	9
Regulatory Measure Id:	426732
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	9 37C363774
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/01/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	04/24/2015
Discharge Name:	Salim Sesi
Discharge Address:	225 Broadway Suite 1900
Discharge City:	San Diego
Discharge State:	California
Discharge Zip:	92101
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY 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 NAME:	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 NAME:	Not reported
DEVELOPER ADDRESS:	Not reported

SESI PROPERTY LANDFILL CLOSURE PROJECT (Continued) **S109457917**

DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	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 DESRIPTION:	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 NAME:	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
Facility Status:	Not reported
Agency Id:	Not reported
Region:	9
Regulatory Measure Id:	426732
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	9 37C363774
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:	4/24/2015
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/30/2012
PROCESSED DATE:	6/1/2012
STATUS CODE NAME:	Terminated
STATUS DATE:	4/24/2015
PLACE SIZE:	22

SESI PROPERTY LANDFILL CLOSURE PROJECT (Continued) **S109457917**

PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Richard Opper
FACILITY CONTACT TITLE:	Owner
FACILITY CONTACT PHONE:	619-231-5858
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	ropper@envirolawyer.com
OPERATOR NAME:	Salim Sesi
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	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:	Private Individual
DEVELOPER NAME:	OTIE
DEVELOPER ADDRESS:	2247 San Diego Ave
DEVELOPER CITY:	San Diego
DEVELOPER STATE:	California
DEVELOPER ZIP:	92110
DEVELOPER CONTACT NAME:	Tom Mulder
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	N
EMERGENCY PHONE NO:	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 DESRIPTION:	Grading and construction of Landfill cover
CONSTYPE OTHER IND:	Y
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:	Not reported
CERTIFIER NAME:	Salim Sesi
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	30-MAY-12
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

C11 **OTAY CANYON RANCH** **FINDS** **1023233843**
2440 CACTUS ROAD **N/A**
< 1/8 **SAN DIEGO, CA 92154**
1 ft.

Site 4 of 4 in cluster C

Relative:
Lower

Actual:
481 ft.

FINDS:

Registry ID: 110065212166

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access
1 additional FINDS: record(s) in the EDR Site Report.

B12 **EDR Hist Auto** **1015329966**
SSE **2177 CACTUS RD** **N/A**
< 1/8 **SAN YSIDRO, CA 92173**
0.001 mi.
6 ft. **Site 2 of 4 in cluster B**

Relative:
Higher

Actual:
511 ft.

EDR Historical Auto Stations:
Name: CONVENIENT AUTO REPAIR & SMOG
Year: 1999
Address: 2177 CACTUS RD

Name: CONVENIENT AUTO REPAIR & SMOG
Year: 2000
Address: 2177 CACTUS RD

B13 **EDR Hist Auto** **1015329965**
SSE **2177 CACTUS RD** **N/A**
< 1/8 **SAN DIEGO, CA 92154**
0.010 mi.
55 ft. **Site 3 of 4 in cluster B**

Relative:
Higher

Actual:
510 ft.

EDR Historical Auto Stations:
Name: CONVENIENT AUTO REPAIR
Year: 2003
Address: 2177 CACTUS RD

Name: CONVENIENT AUTO REPAIR
Year: 2005
Address: 2177 CACTUS RD

B14
SSE
< 1/8
0.014 mi.
72 ft.

EDR Hist Auto **1015329866**
N/A

2175 CACTUS RD
SAN DIEGO, CA 92154

Site 4 of 4 in cluster B

Relative:
Higher

Actual:
510 ft.

EDR Historical Auto Stations:

Name:	AZULEE AUTO RECON
Year:	2004
Address:	2175 CACTUS RD
Name:	AZULEE AUTO RECON
Year:	2005
Address:	2175 CACTUS RD
Name:	AZULEE AUTO RECON
Year:	2006
Address:	2175 CACTUS RD

15
NE
< 1/8
0.046 mi.
245 ft.

EDR Hist Auto **1015294442**
N/A

1938 CACTUS RD
SAN DIEGO, CA 92154

Relative:
Lower

Actual:
498 ft.

EDR Historical Auto Stations:

Name:	RARA AUTO TRANSPORT
Year:	2010
Address:	1938 CACTUS RD

16
NNE
< 1/8
0.100 mi.
526 ft.

TRIPP SALVAGE LANDFILL - SESI PROPERTY
900 CACTUS ROAD
SAN DIEGO, CA 92154

SLIC **S117227913**
LDS **N/A**

Relative:
Lower

Actual:
492 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	06/25/2009
Global Id:	SL209274202
Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Lead Agency Case Number:	Not reported
Latitude:	32.5636422854041
Longitude:	-116.989181041717
Case Type:	Cleanup Program Site
Case Worker:	JRO
Local Agency:	Not reported
RB Case Number:	2092700
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern:	Copper, Lead, Zinc
Site History:	Part of Tripp Salvage Landfill. Automobile dismantling waste was placed on the Sesi Property from approximately 1968 to 1977, and burn ash-contaminated soil was placed in on the property in 1987. This material was covered with fill from other landfills in the area. It is estimated that the waste extends to a depth of approximately 65 feet. Groundwater samples collected from this property in 1998

TRIPP SALVAGE LANDFILL - SESI PROPERTY (Continued) **S117227913**

reportedly contained VOCs, SVOCs, and metals. A Revegetation Plan prepared 2006 proposed excavation of a portion of the waste and placement of a soil cap over the remaining waste. According to the County LEA, soil cap design and associated grading plans have been submitted to City of San Diego for review but the cap has not yet been constructed.

Click here to access the California GeoTracker records for this facility:

LDS:

Global Id:	L10007631848
Latitude:	32.56431
Longitude:	-116.9893
Case Type:	Land Disposal Site
Status:	Completed - Case Closed
Status Date:	01/01/2003
Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Caseworker:	JRO
Local Agency:	Not reported
RB Case Number:	9 000254N97
LOC Case Number:	Not reported
File Location:	Local Agency
Potential Media Affect:	Soil
EDR Link ID:	L10007631848
Potential Contaminants of Concern:	Lead, Other Metal
Site History:	Part of the Tripp Salvage Landfill. Automobile dismantling waste was placed on the Barnhart and Dantzler Property from approximately 1968 to 1977. This material was covered with fill from other landfills in the area. It is estimated that the waste extends to a depth of approximately 65 feet. Groundwater samples collected from this property in 1998 reportedly contained VOCs, SVOCs, and metals. Total area containing waste is approximately 1.1 acres, and an asphalt cap was constructed over the areal extent of the waste in 2001. The County LEA issued no further action letter in 2003 for this property.

Click here to access the California GeoTracker records for this facility:

17
South
1/8-1/4
0.132 mi.
696 ft.

SUPERIOR READY MIX CONCRETE
6935 CACTUS CT
SAN DIEGO, CA 92154

AST **S106447277**
San Diego Co. HMMD **N/A**
NPDES
WDS

Relative:
Lower

Actual:
476 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	SUPERIOR READY MIX CONCRETE L P
Total Gallons:	Not reported
CERSID:	10394581
Facility ID:	37-000-208908
Business Name:	SUPERIOR READY MIX
Phone:	619-661-7148
Fax:	619-265-0813
Mailing Address:	1508 W MISSION RD
Mailing Address City:	ESCONDIDO
Mailing Address State:	CA

SUPERIOR READY MIX CONCRETE (Continued) **S106447277**

Mailing Address Zip Code:	92029
Operator Name:	SUPERIOR READY MIX CONCRETE LLC
Operator Phone:	619-227-9739
Owner Phone:	760-745-0556
Owner Mail Address:	1508 MISSION RD
Owner State:	CA
Owner Zip Code:	92029
Owner Country:	United States
Property Owner Name:	SUPERIOR READY MIX CONCRETE L P
Property Owner Phone:	Not reported
Property Owner Mailing Address:	1508 MISSION RD
Property Owner City:	ESCONDIDO
Property Owner Stat :	CA
Property Owner Zip Code:	92029
Property Owner Country:	United States
EPAID:	Not reported

HMMD SAN DIEGO:

Permit Number:	208908
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	Not reported
Last HMMD Inspection:	Not reported
Facility Telephone:	619-661-7148
Permit Status:	Permit Renewed
Permit Expiration:	Not reported
Date Last Updated:	04/13/2016
Facility Owner:	Not reported
Facility Address:	1508 W MISSION RD, ESCONDIDO, CA 92029
Facility City:	Not reported
Facility State:	Not reported
Facility Zip:	Not reported
UST Owner:	N
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	N
Treat Haz Waste:	N
Generate Medical Waste:	Not reported

INSP:

Record ID:	DEH2008-HUPFP-208908
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-208908
Program Element:	Aboveground Petroleum Storage Act
Inspection Type:	Routine
Inspection Number:	4097964
Return To Compliance Date:	03/26/2015
Nov:	No
Violation Classification:	Class II
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2016-04-13T02:33:02.000
Inspection Date:	03/11/2015
Violation Code:	4020001 Employee training requirements - Failure to provide training regarding: 40 CFR 1 112.7(f)(1); HSC 6.67 25270.4.5(a).

SUPERIOR READY MIX CONCRETE (Continued) **S106447277**

Record ID:	DEH2008-HUPFP-208908
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-208908
Program Element:	Aboveground Petroleum Storage Act
Inspection Type:	Routine
Inspection Number:	4097964
Return To Compliance Date:	03/18/2015
Nov:	No
Violation Classification:	Class II
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2016-04-13T02:33:02.000
Inspection Date:	03/11/2015
Violation Code:	4010021 Inadequate inspections/tests and written records not maintained. Failure to comply with all of the following requirements: 40 CFR 1 112.7(e); HSC 6.67 25270.4.5(a).

Waste:

Record ID:	DEH2008-HUPFP-208908
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0067169
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2016-04-13T02:33:02.000
Chemical Name:	CONCRETE ADDITIVIES
Common Name:	CONCRETE ADDITIVIES
Case Number:	Not reported

Record ID:	DEH2008-HUPFP-208908
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0067170
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2016-04-13T02:33:02.000
Chemical Name:	DIESEL FUEL OIL
Common Name:	DIESEL FUEL
Case Number:	68476-34-6

IAP:

Permit Number:	208908
Update Date:	11/02/2012
Case Number:	74-86-2
Name:	ACETYLENE GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	208908
Update Date:	11/02/2012
Case Number:	Not reported
Name:	CONCRETE ADDITIVIES
Other Information:	Not reported

SUPERIOR READY MIX CONCRETE (Continued) **S106447277**

Material Waste:	Material
Hazardous Categories 1:	CHRONIC
Hazardous Categories 2:	Not reported

Permit Number:	208908
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL FUEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	208908
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	208908
Update Date:	11/02/2012
Case Number:	Not reported
Name:	SOAP
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	208908
Business Type:	6HK70
EPA Id Number:	Not reported
APN:	667-050-46-00
Last HMMD Inspection:	03/11/2010
Facility Telephone:	619-661-7148
Permit Status:	OPEN
Permit Expiration:	04/30/2013
Date Last Updated:	11/02/2012
Facility Owner:	SUPERIOR READY MIX CONCRETE LLC
Facility Address:	1508 W MISSION RD
Facility City:	ESCONDIDO
Facility State:	CA
Facility Zip:	92029
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Y
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

IAP:

Permit Number:	208908
Update Date:	11/02/2012
Case Number:	74-86-2

SUPERIOR READY MIX CONCRETE (Continued) **S106447277**

Name:	ACETYLENE GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	208908
Update Date:	11/02/2012
Case Number:	Not reported
Name:	CONCRETE ADDITIVIES
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	CHRONIC
Hazardous Categories 2:	Not reported

Permit Number:	208908
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL FUEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	208908
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	208908
Update Date:	11/02/2012
Case Number:	Not reported
Name:	SOAP
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	9
Regulatory Measure Id:	218927
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	9 37I018435
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

SUPERIOR READY MIX CONCRETE (Continued) **S106447277**

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:	5/9/2008
PROCESSED DATE:	10/27/2003
STATUS CODE NAME:	Active
STATUS DATE:	10/27/2003
PLACE SIZE:	6
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Dean Andreuzzi
FACILITY CONTACT TITLE:	Batchman
FACILITY CONTACT PHONE:	619-265-0347
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	dandreuzzi@superiorrm.com
OPERATOR NAME:	Superior Ready Mix Concrete
OPERATOR ADDRESS:	1508 Mission Rd
OPERATOR CITY:	Escondido
OPERATOR STATE:	California
OPERATOR ZIP:	92029
OPERATOR CONTACT NAME:	Shawn Mendoza
OPERATOR CONTACT TITLE:	Environmental Coordinator
OPERATOR CONTACT PHONE:	760-745-0556
OPERATOR CONTACT PHONE EXT:	1104
OPERATOR CONTACT EMAIL:	smendoza@superiorrm.com
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	760-745-0556
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 DESRIPTION:	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:	Spring Canyon
CERTIFIER NAME:	Shawn Mendoza

SUPERIOR READY MIX CONCRETE (Continued) **S106447277**

CERTIFIER TITLE:	Legally Responsible Person
CERTIFICATION DATE:	25-JUN-15
PRIMARY SIC:	3273-Ready-Mixed Concrete
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	9
Regulatory Measure Id:	218927
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	9 37I018435
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/27/2003
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Superior Ready Mix Concrete
Discharge Address:	1508 Mission Rd
Discharge City:	Escondido
Discharge State:	California
Discharge Zip:	92029
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY 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 NAME:	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 NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported

SUPERIOR READY MIX CONCRETE (Continued) **S106447277**

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 DESRIPTION:	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 NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

WDS:

Facility ID:	San Diego 37I018435
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
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:	9
Facility Telephone:	7607450556
Facility Contact:	Garret Brouwer
Agency Name:	SUPERIOR READY MIX CONCRETE
Agency Address:	1508 Mission Rd
Agency City,St,Zip:	Escondido 92029
Agency Contact:	Garret Brouwer
Agency Telephone:	7607450556
Agency Type:	Private
SIC Code:	3273
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

SUPERIOR READY MIX CONCRETE (Continued) **S106447277**

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 dischargers having waste storage systems with land disposal such as dairy waste ponds.

18
South
1/8-1/4
0.166 mi.
874 ft.

L.A. TRANSPORT
6903 CACTUS CT
SAN DIEGO, CA 92154

AST **S104755039**
San Diego Co. HMMD **N/A**

Relative:
Lower

Actual:
473 ft.

AST:
Certified Unified Program Agencies: San Diego
Owner: EDUARDO ACEVES
Total Gallons: 12550
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

HMMD SAN DIEGO:
Permit Number: 135484
Business Type: 6HK26
EPA Id Number: CAL000280100
APN: 667-050-45-00
Last HMMD Inspection: 02/18/2010
Facility Telephone: 619-661-1201

L.A. TRANSPORT (Continued) **S104755039**

Permit Status:	OPEN
Permit Expiration:	01/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	EDUARDO ACEVES
Facility Address:	6903 CACTUS COURT
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92154-8012
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

IAP:

Permit Number:	135484
Update Date:	11/02/2012
Case Number:	74-86-2
Name:	ACETYLENE GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135484
Update Date:	11/02/2012
Case Number:	107-21-1
Name:	DIESEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Permit Number:	135484
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

Permit Number:	135484
Update Date:	11/02/2012
Case Number:	74-98-6
Name:	PROPANE COMPRESSED GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135484
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	USED OIL

L.A. TRANSPORT (Continued) **S104755039**

Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135484
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information: CONTAMINATED SOIL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135484
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information: ANTIFREEZE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135484
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

VAP:
Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 05/16/2005
Violation Code: 6HV0132
Violation: EPA ID NUMBER NOT OBTAINED/MAINTAINED
Violation Citation: Generator of hazardous waste has not obtained/maintained an EPA identification number. CCR 66262.12(a)
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 05/16/2005
Violation Code: 6HV0135
Violation: MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation: Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 05/16/2005
Violation Code: 6HV0201
Violation: WASTE CONTAINER NOT CLOSED
Violation Citation: Hazardous waste containers are not kept closed while in storage. CCR

L.A. TRANSPORT (Continued) **S104755039**

	66265.173(a)
Activity:	ACTIVE
Permit Number:	135484
Update Date:	11/02/2012
Inspection Date:	05/16/2005
Violation Code:	6HV0202
Violation:	WASTE CONTAINER W/O LABELS
Violation Citation:	Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity:	ACTIVE
Permit Number:	135484
Update Date:	11/02/2012
Inspection Date:	05/16/2005
Violation Code:	6HV0301
Violation:	HAZWASTE:UNAUTHORIZED DISPOSAL
Violation Citation:	Disposal or causing the disposal of hazardous waste to an unauthorized point (ground, storm drain, sewer system, trash, or air). HSC 25189.5(a) or 25189(d)
Activity:	ACTIVE
Permit Number:	135484
Update Date:	11/02/2012
Inspection Date:	05/16/2005
Violation Code:	6HV0302
Violation:	HAZWASTE:UNLAWFUL TRANSPORTATION
Violation Citation:	Hazardous waste generator has unlawfully transported hazardous waste. HSC 25163(a)
Activity:	ACTIVE
Permit Number:	135484
Update Date:	11/02/2012
Inspection Date:	05/16/2005
Violation Code:	6HV0402
Violation:	TRAINING PROGRAM NOT ADEQUATE
Violation Citation:	Personnel training is not adequate to ensure compliance with hazardous waste regulations. CCR 66265.16(a)&(b)
Activity:	ACTIVE
Permit Number:	135484
Update Date:	11/02/2012
Inspection Date:	05/16/2005
Violation Code:	6HV1009
Violation:	HMBP: INADEQUATE SITE MAP
Violation Citation:	Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity:	ACTIVE
Permit Number:	135484
Update Date:	11/02/2012
Inspection Date:	11/15/2006
Violation Code:	6HV0225
Violation:	ACCUMULATED HW>180 OR >270 DAYS
Violation Citation:	Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR

L.A. TRANSPORT (Continued) **S104755039**

262.34(e)&(f), &/or 25201(a) [>90 days for AHW waste]
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 11/15/2006
Violation Code: 6HV0227
Violation: HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation: Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 11/15/2006
Violation Code: 6HV0228
Violation: CONTAINER NOT KEPT CLOSED
Violation Citation: Failed to keep container closed. CFR 265.173
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 11/15/2006
Violation Code: 6HV0232
Violation: HW CONTAINER IN POOR CONDITION
Violation Citation: Waste accumulated in a container in poor condition. CFR 265.171
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 11/15/2006
Violation Code: 6HV0234
Violation: FACILITY NOT OPERATED TO MINIM. RELEASE
Violation Citation: Did not maintain &/or operate facility to prevent release or fire. CFR 265.31
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 02/18/2010
Violation Code: 6HV1001
Violation: NO UPF PERMIT FOR HAZMATS
Violation Citation: A Unified Program Facility permit has not been obtained for hazardous materials. 68.905
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 02/18/2010
Violation Code: 6HV1012
Violation: SPCC PLAN NOT PREPARED
Violation Citation: Spill Prevention Countermeasures & Control Plan not prepared as required. 25270.5 (c)
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012

L.A. TRANSPORT (Continued) **S104755039**

Inspection Date:	02/18/2010
Violation Code:	6HV0131
Violation:	UPF Permit NOT OBTAINED for HAZWASTE
Violation Citation:	A Unified Program Facility permit has not been obtained for the generation of hazardous waste. 68.905
Activity:	ACTIVE

Permit Number:	135484
Business Type:	6HK26
EPA Id Number:	CAL000280100
APN:	667-050-45-00
Last HMMD Inspection:	02/18/2010
Facility Telephone:	619-661-1201
Permit Status:	OPEN
Permit Expiration:	01/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	EDUARDO ACEVES
Facility Address:	6903 CACTUS COURT
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92154-8012
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

IAP:

Permit Number:	135484
Update Date:	11/02/2012
Case Number:	74-86-2
Name:	ACETYLENE GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135484
Update Date:	11/02/2012
Case Number:	107-21-1
Name:	DIESEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Permit Number:	135484
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

L.A. TRANSPORT (Continued) **S104755039**

Permit Number: 135484
Update Date: 11/02/2012
Case Number: 74-98-6
Name: PROPANE COMPRESSED GAS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Permit Number: 135484
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: USED OIL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135484
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information: CONTAMINATED SOIL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135484
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information: ANTIFREEZE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135484
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

VAP:
Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 05/16/2005
Violation Code: 6HV0132
Violation: EPA ID NUMBER NOT OBTAINED/MAINTAINED
Violation Citation: Generator of hazardous waste has not obtained/maintained an EPA identification number. CCR 66262.12(a)
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012

L.A. TRANSPORT (Continued) **S104755039**

Inspection Date: 05/16/2005
Violation Code: 6HV0135
Violation: MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation: Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 05/16/2005
Violation Code: 6HV0201
Violation: WASTE CONTAINER NOT CLOSED
Violation Citation: Hazardous waste containers are not kept closed while in storage. CCR 66265.173(a)
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 05/16/2005
Violation Code: 6HV0202
Violation: WASTE CONTAINER W/O LABELS
Violation Citation: Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 05/16/2005
Violation Code: 6HV0301
Violation: HAZWASTE:UNAUTHORIZED DISPOSAL
Violation Citation: Disposal or causing the disposal of hazardous waste to an unauthorized point (ground, storm drain, sewer system, trash, or air). HSC 25189.5(a) or 25189(d)
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 05/16/2005
Violation Code: 6HV0302
Violation: HAZWASTE:UNLAWFUL TRANSPORTATION
Violation Citation: Hazardous waste generator has unlawfully transported hazardous waste. HSC 25163(a)
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 05/16/2005
Violation Code: 6HV0402
Violation: TRAINING PROGRAM NOT ADEQUATE
Violation Citation: Personnel training is not adequate to ensure compliance with hazardous waste regulations. CCR 66265.16(a)&(b)
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012

L.A. TRANSPORT (Continued) **S104755039**

Inspection Date: 05/16/2005
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 11/15/2006
Violation Code: 6HV0225
Violation: ACCUMULATED HW>180 OR >270 DAYS
Violation Citation: Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(e)&(f), &/or 25201(a) [>90 days for AHW waste]
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 11/15/2006
Violation Code: 6HV0227
Violation: HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation: Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 11/15/2006
Violation Code: 6HV0228
Violation: CONTAINER NOT KEPT CLOSED
Violation Citation: Failed to keep container closed. CFR 265.173
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 11/15/2006
Violation Code: 6HV0232
Violation: HW CONTAINER IN POOR CONDITION
Violation Citation: Waste accumulated in a container in poor condition. CFR 265.171
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 11/15/2006
Violation Code: 6HV0234
Violation: FACILITY NOT OPERATED TO MINIM. RELEASE
Violation Citation: Did not maintain &/or operate facility to prevent release or fire. CFR 265.31
Activity: ACTIVE

Permit Number: 135484
Update Date: 11/02/2012
Inspection Date: 02/18/2010
Violation Code: 6HV1001
Violation: NO UPF PERMIT FOR HAZMATS
Violation Citation: A Unified Program Facility permit has not been obtained for hazardous

L.A. TRANSPORT (Continued) **S104755039**

	materials. 68.905
Activity:	ACTIVE
Permit Number:	135484
Update Date:	11/02/2012
Inspection Date:	02/18/2010
Violation Code:	6HV1012
Violation:	SPCC PLAN NOT PREPARED
Violation Citation:	Spill Prevention Countermeasures & Control Plan not prepared as required. 25270.5 (c)
Activity:	ACTIVE
Permit Number:	135484
Update Date:	11/02/2012
Inspection Date:	02/18/2010
Violation Code:	6HV0131
Violation:	UPF Permit NOT OBTAINED for HAZWASTE
Violation Citation:	A Unified Program Facility permit has not been obtained for the generation of hazardous waste. 68.905
Activity:	ACTIVE

19
North
1/8-1/4
0.167 mi.
884 ft.

CACTUS ROAD- AKA TRIPP SALVAGE **SWF/LF** **S101669413**
1700-1902 CACTUS ROAD **N/A**
SAN DIEGO, CA

Relative:
Lower

Actual:
501 ft.

SWF/LF (SWIS):

Region:	STATE
Facility ID:	37-CR-0011
Lat/Long:	32.56392 / -116.98903
Owner Name:	CalTrans- District 11
Owner Telephone:	6196883153
Owner Address:	Owen A. Chung
Owner Address2:	4050 Taylor St. MS 242
Owner City,St,Zip:	San Diego, CA 92110
Operational Status:	Closed
Operator:	Not reported
Operator Phone:	Not reported
Operator Address:	Not reported
Operator Address2:	Not reported
Operator City,St,Zip:	Not reported
Permit Date:	Not reported
Permit Status:	Not reported
Permitted Acreage:	$0.00
Activity:	Solid Waste Disposal Site
Regulation Status:	Unpermitted
Landuse Name:	Commercial
GIS Source:	Map
Category:	Disposal
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Not reported
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	$0.00
SWIS Num:	37-CR-0011

CACTUS ROAD- AKA TRIPP SALVAGE (Continued) **S101669413**

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: 32.56392 / -116.98903

Region: STATE
Facility ID: 37-CR-0011
Lat/Long: 32.56392 / -116.98903
Owner Name: Charles E. & Irma J. Tatum
Owner Telephone: 6195759599
Owner Address: APN: 646-100-4800
Owner Address2: 737 Holly Ave.
Owner City,St,Zip: Imperial, CA 91932
Operational Status: Closed
Operator: Not reported
Operator Phone: Not reported
Operator Address: Not reported
Operator Address2: Not reported
Operator City,St,Zip: Not reported
Permit Date: Not reported
Permit Status: Not reported
Permitted Acreage: $0.00
Activity: Solid Waste Disposal Site
Regulation Status: Unpermitted
Landuse Name: Commercial
GIS Source: Map
Category: Disposal
Unit Number: 01
Inspection Frequency: Quarterly
Accepted Waste: Not reported
Closure Date: Not reported
Closure Type: Not reported
Disposal Acreage: $0.00
SWIS Num: 37-CR-0011
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: 32.56392 / -116.98903

Region: STATE
Facility ID: 37-CR-0011
Lat/Long: 32.56392 / -116.98903
Owner Name: Opper & Varco LLP
Owner Telephone: 6192315858
Owner Address: Richard Opper-APN:646-100-4900 & 7300
Owner Address2: 225 Broadway St., Suite 1900
Owner City,St,Zip: San Diego, CA 92101
Operational Status: Closed
Operator: Not reported

CACTUS ROAD- AKA TRIPP SALVAGE (Continued) **S101669413**

Operator Phone:	Not reported
Operator Address:	Not reported
Operator Address2:	Not reported
Operator City,St,Zip:	Not reported
Permit Date:	Not reported
Permit Status:	Not reported
Permitted Acreage:	$0.00
Activity:	Solid Waste Disposal Site
Regulation Status:	Unpermitted
Landuse Name:	Commercial
GIS Source:	Map
Category:	Disposal
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Not reported
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	$0.00
SWIS Num:	37-CR-0011
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:	32.56392 / -116.98903

Region:	STATE
Facility ID:	37-CR-0011
Lat/Long:	32.56392 / -116.98903
Owner Name:	Sesi Group
Owner Telephone:	6199335696
Owner Address:	Dr. Jabir Adamo-APN:646-100-4900 & 7300
Owner Address2:	2129 Furner St.
Owner City,St,Zip:	El Cajon, CA 92020
Operational Status:	Closed
Operator:	Not reported
Operator Phone:	Not reported
Operator Address:	Not reported
Operator Address2:	Not reported
Operator City,St,Zip:	Not reported
Permit Date:	Not reported
Permit Status:	Not reported
Permitted Acreage:	$0.00
Activity:	Solid Waste Disposal Site
Regulation Status:	Unpermitted
Landuse Name:	Commercial
GIS Source:	Map
Category:	Disposal
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Not reported
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	$0.00
SWIS Num:	37-CR-0011

CACTUS ROAD- AKA TRIPP SALVAGE (Continued) **S101669413**

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: 32.56392 / -116.98903

Region: STATE
Facility ID: 37-CR-0011
Lat/Long: 32.56392 / -116.98903
Owner Name: Sesi Group
Owner Telephone: 6195887882
Owner Address: Sesi Salim-APN:646-100-4900 & 7300
Owner Address2: 747 Vista Grande Rd.
Owner City,St,Zip: El Cajon, CA 92019
Operational Status: Closed
Operator: Not reported
Operator Phone: Not reported
Operator Address: Not reported
Operator Address2: Not reported
Operator City,St,Zip: Not reported
Permit Date: Not reported
Permit Status: Not reported
Permitted Acreage: $0.00
Activity: Solid Waste Disposal Site
Regulation Status: Unpermitted
Landuse Name: Commercial
GIS Source: Map
Category: Disposal
Unit Number: 01
Inspection Frequency: Quarterly
Accepted Waste: Not reported
Closure Date: Not reported
Closure Type: Not reported
Disposal Acreage: $0.00
SWIS Num: 37-CR-0011
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: 32.56392 / -116.98903

20
West
1/8-1/4
0.213 mi.
1127 ft.

LAMKIN CORP
6530 GATEWAY PARK DR
SAN DIEGO, CA 92154

RCRA-SQG **1007370127**
HAZNET **CAR000152967**

Relative:
Higher

Actual:
505 ft.

RCRA-SQG:
Date form received by agency: 04/30/2004
Facility name: LAMKIN CORP
Facility address: 6530 GATEWAY PARK DR
SAN DIEGO, CA 92154

LAMKIN CORP (Continued) **1007370127**

EPA ID:	CAR000152967
Contact:	RICHARD A PETRIE
Contact address:	6530 GATEWAY PARK DR SAN DIEGO, CA 92154
Contact country:	US
Contact telephone:	619-661-7090
Telephone ext.:	112
Contact email:	DPETRIE@LAMKINGRIPS.COM
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:	LAMKIN CORP
Owner/operator address:	6530 GATEWAY PARK DR SAN DIEGO, CA 92154
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	05/07/1991
Owner/Op end date:	Not reported

Owner/operator name:	LAMKIN CORPORATION
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	05/07/1991
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 WASTE

LAMKIN CORP (Continued) **1007370127**

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

HAZNET:

envid:	1007370127
Year:	2004
GEPAID:	CAR000152967
Contact:	RICHARD A PETRIE
Telephone:	6196617090
Mailing Name:	Not reported
Mailing Address:	6530 GATEWAY PARK DR
Mailing City,St,Zip:	SAN DIEGO, CA 921540000
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Transfer Station
Tons:	1.91
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Diego

21
NNE
1/8-1/4
0.228 mi.
1205 ft.

ASSOCIATED READY MIXED CONCRETE **AST** **S108742579**
1696 CACTUS RD **NPDES** **N/A**
SAN DIEGO, CA 92154

Relative:
Higher

Actual:
505 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	ASSOCIATED READY MIXED CONCRETE, INC
Total Gallons:	Not reported
CERSID:	10394077
Facility ID:	37-000-102446
Business Name:	A&A READY MIXED CONCRETE, INC
Phone:	619-661-7555
Fax:	Not reported
Mailing Address:	4621 TELLER AVE # 130
Mailing Address City:	NEWPORT
Mailing Address State:	CA
Mailing Address Zip Code:	92660
Operator Name:	ASSOCIATED READY MIXED CONCRETE, INC
Operator Phone:	619-661-7555
Owner Phone:	949-253-2800
Owner Mail Address:	4621 TELLER AVE 130
Owner State:	CA
Owner Zip Code:	92660
Owner Country:	United States
Property Owner Name:	LEBATA INC
Property Owner Phone:	Not reported

ASSOCIATED READY MIXED CONCRETE (Continued) **S108742579**

Property Owner Mailing Address:	4621 TELLER AVE 130
Property Owner City:	NEWPORT BEACH
Property Owner Stat :	CA
Property Owner Zip Code:	92660
Property Owner Country:	United States
EPAID:	CAL000270953

Certified Unified Program Agencies:	San Diego
Owner:	ASSOCIATED READY MIXED CONCRETE, INC
Total Gallons:	12805
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:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	9
Regulatory Measure Id:	218851
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	9 37I017562
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:	5/9/2008
PROCESSED DATE:	11/1/2002

ASSOCIATED READY MIXED CONCRETE (Continued) **S108742579**

STATUS CODE NAME:	Active
STATUS DATE:	11/1/2002
PLACE SIZE:	3.5
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Jim Parker
FACILITY CONTACT TITLE:	Plant Manager
FACILITY CONTACT PHONE:	619-661-7555
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	jparker@assocrmc.com
OPERATOR NAME:	Associated Ready Mixed Concrete
OPERATOR ADDRESS:	2730 E Washington Blvd
OPERATOR CITY:	Los Angeles
OPERATOR STATE:	California
OPERATOR ZIP:	90023
OPERATOR CONTACT NAME:	Alex Nichols
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	949-253-2800
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	anichols@assocrmc.com
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	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 DESRIPTION:	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:	Tijuana River
CERTIFIER NAME:	Jim Parker
CERTIFIER TITLE:	Plant Manager
CERTIFICATION DATE:	29-JUN-15
PRIMARY SIC:	3273-Ready-Mixed Concrete
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000001
Facility Status:	Active

ASSOCIATED READY MIXED CONCRETE (Continued) **S108742579**

Agency Id:	0
Region:	9
Regulatory Measure Id:	218851
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	9 37I017562
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/01/2002
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Associated Ready Mixed Concrete
Discharge Address:	2730 E Washington Blvd
Discharge City:	Los Angeles
Discharge State:	California
Discharge Zip:	90023
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY 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 NAME:	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 NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	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

ASSOCIATED READY MIXED CONCRETE (Continued) **S108742579**

CONSTYPE OTHER DESRIPTION:	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 NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

D22
NNE
1/4-1/2
0.363 mi.
1914 ft.

OTAY MESA ROAD WIDENING **SLIC** **S105692651**
NONE OTAY MESA RD **N/A**
SAN DIEGO, CA 92173

Site 1 of 3 in cluster D

Relative:
Higher

Actual:
511 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	08/15/2012
Global Id:	T0608166754
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H36821-001
Latitude:	32.5680299
Longitude:	-116.9883048
Case Type:	Cleanup Program Site
Case Worker:	VAP
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Not reported
Site History:	Please refer to "Site Maps/Documents' tab for Closure Memo

Click here to access the California GeoTracker records for this facility:

23
SSW
1/4-1/2
0.381 mi.
2014 ft.

BORDERPOINT BUSINESS PARK **SLIC** **S119777560**
6754 CALLE DE LINEA, SUITE 107 **N/A**
SAN DIEGO, CA 92154

Relative:
Lower

Actual:
428 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Active**
Status Date:	03/08/2017
Global Id:	T10000010202
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	DEh2017-LSAM-000430

BORDERPOINT BUSINESS PARK (Continued) **S119777560**

Latitude:	32.54837
Longitude:	-116.9954
Case Type:	Cleanup Program Site
Case Worker:	JC
Local Agency:	SAN DIEGO COUNTY LOP
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:

D24
NNE
1/4-1/2
0.387 mi.
2042 ft.

U S BORDER PATROL/BROWN FIELD
7060 BOEING ST
SAN DIEGO, CA 92173

SAN DIEGO CO. SAM **S104578967**
SLIC **N/A**
San Diego Co. HMMD

Site 2 of 3 in cluster D

Relative:
Higher

Actual:
513 ft.

SAN DIEGO CO. SAM:

Case Number:	H21496-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Non Billable**
Facility Type:	Failed Integrity Test
Facility Status:	Closed Case
Date:	7/1/1987
Date Began:	2/19/1987

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	07/01/1987
Global Id:	T0608177377
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H21496-001
Latitude:	32.568371
Longitude:	-116.988442
Case Type:	Cleanup Program Site
Case Worker:	KH
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Under Investigation
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

HMMD SAN DIEGO:

Permit Number:	121496
Business Type:	6HK26
EPA Id Number:	CAL000139681
APN:	646-050-03-00
Last HMMD Inspection:	01/09/2007
Facility Telephone:	619-216-4049
Permit Status:	CHNG
Permit Expiration:	11/30/2007

U S BORDER PATROL/BROWN FIELD (Continued) **S104578967**

Date Last Updated:	11/02/2012
Facility Owner:	US BORDER PATROL
Facility Address:	2411 BOSWELL RD
Facility City:	CHULA VISTA
Facility State:	CA
Facility Zip:	91914-
UST Owner:	CITY OPERATIONS BUILDING MS404
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 121496 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	121496
Tank Type:	UNKNOWN
Additional Id:	3
Capacity Gallons:	10000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1995-06-09 00:00:00
Year Installed:	1982-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

Permit Number:	121496
Business Type:	6HK26
EPA Id Number:	CAL000139681
APN:	646-050-03-00
Last HMMD Inspection:	01/09/2007
Facility Telephone:	619-216-4049
Permit Status:	CHNG
Permit Expiration:	11/30/2007
Date Last Updated:	11/02/2012
Facility Owner:	US BORDER PATROL
Facility Address:	2411 BOSWELL RD
Facility City:	CHULA VISTA
Facility State:	CA
Facility Zip:	91914-
UST Owner:	CITY OPERATIONS BUILDING MS404
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 121496 T001
Last Update:	2012-11-02 14:17:38

U S BORDER PATROL/BROWN FIELD (Continued) **S104578967**

Permit Number:	121496
Tank Type:	UNKNOWN
Additional Id:	3
Capacity Gallons:	10000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1995-06-09 00:00:00
Year Installed:	1982-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

D25 **TRIP LANDFILL/CACTUS RD PROPER** **SAN DIEGO CO. SAM** **S100735996**
NNE **NONE W CACTUS S OTAY MESA R** **SLIC** **N/A**
1/4-1/2 **SAN DIEGO, CA 92173** **San Diego Co. HMMD**
0.388 mi.
2047 ft. **Site 3 of 3 in cluster D**

Relative:
Higher

Actual:
514 ft.

SAN DIEGO CO. SAM:

Case Number:	H32115-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Non Billable**
Facility Type:	Soils Only
Facility Status:	Preliminary Assessment
Date:	11/7/1991
Date Began:	11/7/1991

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	06/11/2012
Global Id:	T0608106121
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H32115-001
Latitude:	32.5632200393743
Longitude:	-116.989566137573
Case Type:	Cleanup Program Site
Case Worker:	VAP
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Not reported
Site History:	This case was opened in November 1991; it involved the dumping of debris at a site that was later determined to be hazardous debris. This case was transferred in 1996 to the LEA as a Site Designation Case - Solid Waste Information System (SWIS) 37CR0011; therefore, the SAM case can be administratively closed.

Click here to access the California GeoTracker records for this facility:

HMMD SAN DIEGO:

Permit Number:	132115

TRIP LANDFILL/CACTUS RD PROPER (Continued) **S100735996**

Business Type:	Not reported
EPA Id Number:	Not reported
APN:	646-100-69-00
Last HMMD Inspection:	Not reported
Facility Telephone:	Not reported
Permit Status:	INAC
Permit Expiration:	Not reported
Date Last Updated:	11/02/2012
Facility Owner:	EMIL J NAGLER
Facility Address:	543 DEERHAVEN ST
Facility City:	EL CAJON
Facility State:	CA
Facility Zip:	92019-1223
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

26
NNW
1/4-1/2
0.401 mi.
2119 ft.

PIPER RANCH BUS PARK
LA MEDIA RD
CHULA VISTA, CA 92173

SAN DIEGO CO. SAM **S100733654**
SLIC **N/A**
San Diego Co. HMMD

Relative:
Higher

Actual:
511 ft.

SAN DIEGO CO. SAM:

Case Number:	H26521-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Non Billable**
Facility Type:	Soils Only
Facility Status:	Preliminary Assessment
Date:	6/22/1988
Date Began:	6/22/1988

Case Number:	H26521-002
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	2/21/1995
Date Began:	8/29/1988

Case Number:	H26521-003
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	2/29/1996
Date Began:	1/4/1996

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	02/29/1996
Global Id:	T0608196257

PIPER RANCH BUS PARK (Continued) **S100733654**

Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H26521-003
Latitude:	32.6228028539234
Longitude:	-116.985464858596
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

HMMD SAN DIEGO:

Permit Number:	126521
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	646-250-15-00
Last HMMD Inspection:	Not reported
Facility Telephone:	Not reported
Permit Status:	INAC
Permit Expiration:	Not reported
Date Last Updated:	11/02/2012
Facility Owner:	PIPER RANCH BUSINESS PARK
Facility Address:	LA MEDIA & OTAY MESA
Facility City:	CHULA VISTA
Facility State:	CA
Facility Zip:	91909-
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

27
SSE
1/4-1/2
0.402 mi.
2120 ft.

MARTINEZ OUTDOOR STORAGE **SAN DIEGO CO. SAM** **S110041793**
2770 MARTINEZ RANCH RD **SLIC** **N/A**
SAN DIEGO, CA 92154

Relative:
Lower

Actual:
473 ft.

SAN DIEGO CO. SAM:

Case Number:	H39743-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	Soils Only
Facility Status:	Preliminary Assessment
Date:	7/7/2009
Date Began:	Not reported

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	03/08/2011

MARTINEZ OUTDOOR STORAGE (Continued) **S110041793**

Global Id:	T10000001605
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H39743-001
Latitude:	32.5486473
Longitude:	-116.9840433
Case Type:	Cleanup Program Site
Case Worker:	TS
Local Agency:	SAN DIEGO COUNTY LOP
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:

28
NNW
1/4-1/2
0.446 mi.
2357 ft.

PIPER RANCH BUS PARK
6464 OTAY MESA ROAD
CHULA VISTA, CA 92173

LUST **S104160603**
SLIC **N/A**
HIST CORTESE

Relative:
Higher

Actual:
510 ft.

LUST:

Region:	STATE
Global Id:	T0607302117
Latitude:	32.5688820599091
Longitude:	-116.995745840445
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	02/21/1995
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT3356
LOC Case Number:	H26521-002
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607302117
Status:	Completed - Case Closed
Status Date:	02/21/1995

Global Id:	T0607302117
Status:	Open - Case Begin Date
Status Date:	08/29/1988

Regulatory Activities:

Global Id:	T0607302117
Action Type:	Other
Date:	08/29/1988
Action:	Leak Discovery

Global Id:	T0607302117

PIPER RANCH BUS PARK (Continued) **S104160603**

Action Type:	Other
Date:	08/29/1988
Action:	Leak Began
Global Id:	T0607302117
Action Type:	Other
Date:	09/24/1994
Action:	Leak Reported
Global Id:	T0607302117
Action Type:	Other
Date:	09/24/1994
Action:	Leak Stopped
Global Id:	T0607302117
Action Type:	ENFORCEMENT
Date:	09/28/1994
Action:	Notice of Responsibility

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT3356
Local Case:	H26521-002
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency:	San Diego
How Found:	Not reported
How Stopped:	Not reported
Source:	Not reported
Cause:	Not reported
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	08/29/1988
Date Stopped:	09/24/1994
Confirm Date:	/ /
Submit Workplan:	Not reported
Prelim Assess:	09/27/1994
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	09/24/1994
Enforce Date:	9/28/94
Closed Date:	2/21/95
Enforce Type:	SEL
Pilot Program:	LOP
Basin Number:	911.12
GW Depth:	Not reported
Beneficial Use:	Municipal groundwater use
NPDES Number:	Not reported
Priority:	Low priority. Priority ranking can change over time.
File Dispn:	Administratively opened on database, however no file physically exists
Interim Remedial Actions:	Not reported

PIPER RANCH BUS PARK (Continued) **S104160603**

Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	02/28/1996
Global Id:	T0608115400
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H26521-001
Latitude:	32.568841780256
Longitude:	-116.995026707161
Case Type:	Cleanup Program Site
Case Worker:	VAP
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
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:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT3356

E29 **CITY OF SAN DIEGO-BROWN FIELD** **LUST** **S103891823**
NNE **1424 CONTINENTAL ST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92173**
0.487 mi.
2570 ft. **Site 1 of 2 in cluster E**

Relative:
Higher

Actual:
514 ft.

LUST REG 9:

Region:	9
Status:	Preliminary site assessment underway
Case Number:	9UT3904
Local Case:	H10618-024
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Tank
Cause:	Corrosion
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	03/25/1999
Date Stopped:	03/25/1999
Confirm Date:	/ /
Submit Workplan:	Not reported
Prelim Assess:	04/16/1999
Desc Pollution:	Not reported
Remed Plan:	/ /

CITY OF SAN DIEGO-BROWN FIELD (Continued) **S103891823**

Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	03/25/1999
Enforce Date:	Not reported
Closed Date:	Not reported
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	911.12
GW Depth:	Not reported
Beneficial Use:	MUNBU
NPDES Number:	Not reported
Priority:	Medium priority
File Dispn:	Administratively opened on database, however no file physically exists
Interim Remedial Actions:	Not reported
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

E30 **LANCAIR CORP** **LUST** **1000437555**
NNE **1424 CONTINENTAL ST** **SAN DIEGO CO. SAM** **N/A**
1/4-1/2 **SAN DIEGO, CA 92154** **SLIC**
0.487 mi. **AST**
2570 ft. **Site 2 of 2 in cluster E** **San Diego Co. HMMD**
SWEEPS UST
Relative: **HIST UST**
Higher **CHMIRS**
HIST CORTESE
Actual: **NPDES**
514 ft.

LUST:

Region:	STATE
Global Id:	T0607301159
Latitude:	32.5690714
Longitude:	-116.9851602
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/19/2003
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT2393
LOC Case Number:	H10618-007
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607301159
Status:	Completed - Case Closed
Status Date:	09/19/2003
Global Id:	T0607301159
Status:	Open - Case Begin Date
Status Date:	03/17/1989

LANCAIR CORP (Continued) **1000437555**

Regulatory Activities:

Global Id:	T0607301159
Action Type:	Other
Date:	03/17/1989
Action:	Leak Discovery
Global Id:	T0607301159
Action Type:	Other
Date:	03/17/1989
Action:	Leak Began
Global Id:	T0607301159
Action Type:	Other
Date:	03/17/1989
Action:	Leak Reported
Global Id:	T0607301159
Action Type:	Other
Date:	03/17/1989
Action:	Leak Stopped
Global Id:	T0607301159
Action Type:	ENFORCEMENT
Date:	04/07/1989
Action:	Notice of Responsibility

Region:	STATE
Global Id:	T0607300600
Latitude:	32.56879
Longitude:	-116.9855062
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/26/2010
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	TS
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9UT1811
LOC Case Number:	H10618-017
File Location:	Local Agency
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Aviation
Site History:	Note: Case #H10618-017 iis being administratively consolidated with case #H10618-016 (both aviation gasoline releases in the Fuel Farm Area of the Brown Field airport) in January 2010, and release -017 is being administratively closed by DEH. The Fuel Farm releases, including -017, will be investigated and closed under release -016. Please see case #H10618-016 (Global ID T0607300601) for additional case information. Release -017 refers to one leaking underground storage tank (UST #12) located within the former Fuel Farm portion of Brown Field Airport. UST 12 was a 50,000 gallon capacity concrete tank that formerly contained jet fuel/aviation gas- built in the 1940s. The results of initial assessment activities for release -017 and additional releases (-016, -018, -019, -022, -023, -024) from 7 other leaking tanks in the Fuel Farm area are provided in the Subsurface Assessment Report, dated May 11, 2007, and prepared by SCS Engineers (SEE REPORT UNDER RELEASE -016). The USTs, which all

LANCAIR CORP (Continued) **1000437555**

contained aviation fuel, were removed from the Fuel Farm on October 10, 1990. Approx. 280 cubic yards of contaminated soil was removed and stockpiled from the UST #12 excavation. Overexcavation was continued to a maximum depth of 35 feet below grade. Total petroleum hydrocarbons (TPH) concentrations were still elevated in the NE and NW sidewalls, at 2,050 and 1,100 mg/kg, respectively. Release -017 isincluded in the overall investigation of the Fuel Farm site. A soil vapor study was conducted at the site in November 2008 to assess potential health risks. Additional investigation of the extent of soil and groundwater petroleum contamination in the Fuel Farm area will be conducted as funding becomes available to the City of San Diego.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607300600
Contact Type:	Local Agency Caseworker
Contact Name:	TERESA SHERMAN
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	teresa.sherman@sdcounty.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0607300600
Status:	Completed - Case Closed
Status Date:	01/26/2010
Global Id:	T0607300600
Status:	Open - Case Begin Date
Status Date:	10/10/1990
Global Id:	T0607300600
Status:	Open - Remediation
Status Date:	11/03/1992
Global Id:	T0607300600
Status:	Open - Site Assessment
Status Date:	10/26/2009

Regulatory Activities:

Global Id:	T0607300600
Action Type:	ENFORCEMENT
Date:	04/28/2009
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607300600
Action Type:	ENFORCEMENT
Date:	07/31/2008
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607300600
Action Type:	Other
Date:	10/10/1990
Action:	Leak Began

LANCAIR CORP (Continued) **1000437555**

Global Id: T0607300600
Action Type: Other
Date: 10/10/1990
Action: Leak Reported

Global Id: T0607300600
Action Type: ENFORCEMENT
Date: 10/21/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300600
Action Type: ENFORCEMENT
Date: 01/22/2010
Action: Closure/No Further Action Letter

Global Id: T0607300600
Action Type: Other
Date: 10/10/1990
Action: Leak Discovery

Global Id: T0607300600
Action Type: ENFORCEMENT
Date: 07/31/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300600
Action Type: ENFORCEMENT
Date: 10/30/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300600
Action Type: Other
Date: 10/10/1990
Action: Leak Stopped

Global Id: T0607300600
Action Type: ENFORCEMENT
Date: 10/19/1990
Action: Notice of Responsibility

Global Id: T0607300600
Action Type: ENFORCEMENT
Date: 07/13/2009
Action: Letter - Notice

Region: STATE
Global Id: T0607301157
Latitude: 32.5690714
Longitude: -116.9851602
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 09/11/2003
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT2391

LANCAIR CORP (Continued) **1000437555**

LOC Case Number:	H10618-005
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607301157
Status:	Completed - Case Closed
Status Date:	09/11/2003
Global Id:	T0607301157
Status:	Open - Case Begin Date
Status Date:	03/17/1989

Regulatory Activities:

Global Id:	T0607301157
Action Type:	Other
Date:	03/17/1989
Action:	Leak Discovery
Global Id:	T0607301157
Action Type:	Other
Date:	03/17/1989
Action:	Leak Began
Global Id:	T0607301157
Action Type:	Other
Date:	03/17/1989
Action:	Leak Reported
Global Id:	T0607301157
Action Type:	ENFORCEMENT
Date:	03/30/1989
Action:	Notice of Responsibility
Global Id:	T0607301157
Action Type:	Other
Date:	03/17/1989
Action:	Leak Stopped

Region:	STATE
Global Id:	T0607301165
Latitude:	32.5690714
Longitude:	-116.9851602
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/13/2003
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT2399
LOC Case Number:	H10618-013
File Location:	Local Agency

LANCAIR CORP (Continued) **1000437555**

Potential Media Affect: Soil
Potential Contaminants of Concern: Heating Oil / Fuel Oil
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:
Global Id: T0607301165
Status: Completed - Case Closed
Status Date: 06/13/2003

Global Id: T0607301165
Status: Open - Case Begin Date
Status Date: 04/14/1989

Regulatory Activities:
Global Id: T0607301165
Action Type: ENFORCEMENT
Date: 05/05/1989
Action: Notice of Responsibility

Global Id: T0607301165
Action Type: Other
Date: 04/14/1989
Action: Leak Began

Global Id: T0607301165
Action Type: Other
Date: 04/14/1989
Action: Leak Reported

Global Id: T0607301165
Action Type: Other
Date: 04/14/1989
Action: Leak Discovery

Global Id: T0607301165
Action Type: Other
Date: 04/14/1989
Action: Leak Stopped

Region: STATE
Global Id: T0607301167
Latitude: 32.56879
Longitude: -116.9855062
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 08/16/1999
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT2400
LOC Case Number: H10618-014
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel

LANCAIR CORP (Continued) **1000437555**

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607301167
Status:	Completed - Case Closed
Status Date:	08/16/1999
Global Id:	T0607301167
Status:	Open - Case Begin Date
Status Date:	04/14/1989

Regulatory Activities:

Global Id:	T0607301167
Action Type:	ENFORCEMENT
Date:	05/05/1989
Action:	Notice of Responsibility
Global Id:	T0607301167
Action Type:	ENFORCEMENT
Date:	07/27/1999
Action:	Closure/No Further Action Letter - #H10618-014
Global Id:	T0607301167
Action Type:	Other
Date:	04/14/1989
Action:	Leak Began
Global Id:	T0607301167
Action Type:	Other
Date:	04/14/1989
Action:	Leak Reported
Global Id:	T0607301167
Action Type:	Other
Date:	04/14/1989
Action:	Leak Discovery
Global Id:	T0607301167
Action Type:	Other
Date:	04/14/1989
Action:	Leak Stopped

Region:	STATE
Global Id:	T0607300712
Latitude:	32.5690714
Longitude:	-116.9851602
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/21/2003
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT1933
LOC Case Number:	H10618-020

LANCAIR CORP (Continued) **1000437555**

File Location:	Local Agency
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607300712
Status:	Completed - Case Closed
Status Date:	08/21/2003
Global Id:	T0607300712
Status:	Open - Case Begin Date
Status Date:	12/06/1990

Regulatory Activities:

Global Id:	T0607300712
Action Type:	ENFORCEMENT
Date:	12/07/1990
Action:	Notice of Responsibility
Global Id:	T0607300712
Action Type:	Other
Date:	12/06/1990
Action:	Leak Began
Global Id:	T0607300712
Action Type:	Other
Date:	12/07/1990
Action:	Leak Reported
Global Id:	T0607300712
Action Type:	Other
Date:	12/06/1990
Action:	Leak Discovery
Global Id:	T0607300712
Action Type:	Other
Date:	12/06/1990
Action:	Leak Stopped

Region:	STATE
Global Id:	T0607301154
Latitude:	32.5690714
Longitude:	-116.9851602
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/11/2003
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT2389
LOC Case Number:	H10618-003
File Location:	Local Agency
Potential Media Affect:	Soil

LANCAIR CORP (Continued) **1000437555**

Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:
Global Id: T0607301154
Status: Completed - Case Closed
Status Date: 09/11/2003

Global Id: T0607301154
Status: Open - Case Begin Date
Status Date: 03/17/1989

Regulatory Activities:
Global Id: T0607301154
Action Type: Other
Date: 03/17/1989
Action: Leak Discovery

Global Id: T0607301154
Action Type: Other
Date: 03/17/1989
Action: Leak Began

Global Id: T0607301154
Action Type: Other
Date: 03/17/1989
Action: Leak Reported

Global Id: T0607301154
Action Type: ENFORCEMENT
Date: 03/30/1989
Action: Notice of Responsibility

Global Id: T0607301154
Action Type: Other
Date: 03/17/1989
Action: Leak Stopped

Region: STATE
Global Id: T0607300719
Latitude: 32.56879
Longitude: -116.9855062
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/26/2010
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: TS
Local Agency: SAN DIEGO COUNTY LOP
RB Case Number: 9UT1942
LOC Case Number: H10618-023
File Location: Local Agency
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Diesel
Site History: Note: Case #H10618-023 is being administratively consolidated with

LANCAIR CORP (Continued) **1000437555**

case #H10618-016 (both aviation gasoline releases in the Fuel Farm Area of the Brown Field airport) in January 2010, and release -023 is being administratively closed by DEH. The Fuel Farm releases, including -023, will be investigated and closed under release -016. Please see case #H10618-016 (Global ID T0607300601) for additional case information. Release -023: USTs 16 and 17 were manifolded by an underground fuel transfer system which fed through a central pipe vault. Release -023 is referred to in the case files as the tank vault (between UST 16 and 17) and as UST #17, a leaking underground storage tank located within the former Fuel Farm portion of Brown Field Airport. UST 17 was a 220,000 gallon capacity concrete tank that formerly contained jet fuel/aviation gas- built in the 1940s. UST #17 and the vault were removed in March 1991. Approx. 2500 cubic yards of contaminated soil was removed and stockpiled from the combined UST #16 and UST#17 excavations. A soil sample collected at the bottom of the pipe vault excavation (48 ft. bgs) had a TPH concentration of 1,520 mg/kg. Sidewall samples ranged from 20 to 4,800 mg/kg TPH. TPH concentrations in samples collected at the bottom of USTs 16 and 17 excavations were below detection limits. Release -023 is included in the overall investigation of the Fuel Farm site. The results of initial assessment activities for release -023 and additional releases (-016, -017, -018, -019, -022, -024) from 7 other leaking tanks in the Fuel Farm area are provided in the Subsurface Assessment Report, dated May 11, 2007, and prepared by SCS Engineers (SEE REPORT UNDER RELEASE -016). A soil vapor study was conducted at the site in November 2008 to assess potential health risks. Additional investigation of the extent of soil and groundwater petroleum contamination in the Fuel Farm area will be conducted as funding becomes available to the City of San Diego.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607300719
Contact Type:	Local Agency Caseworker
Contact Name:	TERESA SHERMAN
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	teresa.sherman@sdcounty.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0607300719
Status:	Completed - Case Closed
Status Date:	01/26/2010
Global Id:	T0607300719
Status:	Open - Case Begin Date
Status Date:	04/19/1991
Global Id:	T0607300719
Status:	Open - Remediation
Status Date:	11/03/1992
Global Id:	T0607300719
Status:	Open - Site Assessment

LANCAIR CORP (Continued) **1000437555**

Status Date: 10/26/2009

Global Id: T0607300719
Status: Open - Site Assessment
Status Date: 01/20/2010

Global Id: T0607300719
Status: Open - Site Assessment
Status Date: 01/21/2010

Regulatory Activities:
Global Id: T0607300719
Action Type: ENFORCEMENT
Date: 05/14/1991
Action: Notice of Responsibility

Global Id: T0607300719
Action Type: ENFORCEMENT
Date: 04/28/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300719
Action Type: ENFORCEMENT
Date: 07/31/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300719
Action Type: ENFORCEMENT
Date: 10/30/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300719
Action Type: Other
Date: 04/19/1991
Action: Leak Began

Global Id: T0607300719
Action Type: Other
Date: 04/19/1991
Action: Leak Reported

Global Id: T0607300719
Action Type: ENFORCEMENT
Date: 01/22/2010
Action: Closure/No Further Action Letter

Global Id: T0607300719
Action Type: Other
Date: 04/19/1991
Action: Leak Discovery

Global Id: T0607300719
Action Type: Other
Date: 04/19/1991
Action: Leak Stopped

Global Id: T0607300719

LANCAIR CORP (Continued) **1000437555**

Action Type:	ENFORCEMENT
Date:	07/13/2009
Action:	Letter - Notice
Global Id:	T0607300719
Action Type:	ENFORCEMENT
Date:	10/21/2009
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607300719
Action Type:	ENFORCEMENT
Date:	07/31/2008
Action:	Technical Correspondence / Assistance / Other
Region:	STATE
Global Id:	T0607302664
Latitude:	32.568372
Longitude:	-116.9847902
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/02/2012
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	TS
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9UT3904
LOC Case Number:	H10618-024
File Location:	Local Agency
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Diesel
Site History:	Please note that cases/releases H10618-024 (Bearden Aviation) and H10618-002 (Industrial Park) are not considered part of the Fuel Farm (see release H10618-16) and will be closed separately. Two 10,000-gallon capacity, single-walled steel underground storage tanks (USTs), Tank 10 and Tank 11, were removed from a common excavation located near the northern border of the former Brown Field Airport Fuel Farm on March 25, 1999. The USTs were misidentified in initial Brown Field environmental reports as Fuel Farm USTs 6 and 7. Tanks 10 and 11 were operated by Bearden Aviation, Inc., a fuel dispenser who leases property at the airport, and were formerly owned by Paladin Aviation, Inc. The unauthorized petroleum releases associated with the former Fuel Farm USTs are currently being addressed under DEH/SAM case #10618-016. Brown Field Airport is operated by the City of San Diego. UST 10 contained jet fuel, and UST 11 contained aviation gas. While heavy corrosion was noted on both tanks during the removals, no holes were observed. After the two tanks were removed, soil samples were collected from below the northern and southern ends of the tank footprints at depths of 14 to 15 feet below ground surface (bgs). Total petroleum hydrocarbons in the gasoline range (TPH-g) and the diesel range (TPH-d) were not detected (less than 10 milligrams per kilogram [mg/kg]) in the northern UST 10 sample and the southern UST 11 sample. However, the soil sample collected below the southern end of UST 10 contained a TPH-g concentration of 18 mg/kg, and a TPH-d concentration of 42 mg/kg. The soil sample collected under the northern end of UST 11 contained a reported TPH-d concentration of 770 mg/kg, but TPH-g was not detected. In 2006, in accordance with a DEH/SAM approved workplan, one boring (B-15) was drilled in the

LANCAIR CORP (Continued) **1000437555**

vicinity of the former USTs to assess the vertical extent of petroleum hydrocarbon-bearing soil. On September 11, 2006, hollow-stem auger refusal was encountered in the boring at a depth of approximately 30 feet bgs. Installation of the boring was continued on October 19 and 20, 2006, using an air-rotary drilling rig, and the boring was advanced to a depth of approximately 90 feet bgs. Five soil samples were collected from the boring at depths of 15, 25, 60, 70, and 80 feet (no recovery at 90 feet bgs), and TPH-g and TPH-d were not detected in the samples. Groundwater was not encountered during advancement of the boring to 90 feet bgs. Based on reported depth to groundwater measurements in the Fuel Farm monitoring wells, groundwater in the vicinity of the former USTs is generally located at a depth between approximately 179 to 189 feet bgs. A soil vapor study was conducted in the former Fuel Farm area in November 2008 to assess potential health risks. One of the surveys twenty-five vapor samples (SV-19) was collected at a depth of 5 feet bgs near the former location of USTs 10 and 11. According to the Soil Vapor Survey Report, dated February 8, 2010, no volatile organic compounds were reported in the SV-19 sample, with the exception of a toluene concentration of 1.3 micrograms per liter. Based on vapor contaminant concentrations measured across the former Fuel Farm, the consultant concluded that there is no significant risk to human health under a commercial exposure scenario. In the May 2007 Subsurface Assessment Report for the former Fuel Farm site investigation, the consultant concludes that the extent of soil contamination related to USTs 10 and 11 has been delineated (by B-15 and other borings/wells in the Fuel Farm area), and groundwater has not been impacted. SAM concurs with the conclusion, and approves the City of San Diegos request for site closure.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607302664
Contact Type:	Local Agency Caseworker
Contact Name:	TERESA SHERMAN
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	teresa.sherman@sdcounty.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0607302664
Status:	Completed - Case Closed
Status Date:	07/02/2012
Global Id:	T0607302664
Status:	Open - Case Begin Date
Status Date:	03/25/1999
Global Id:	T0607302664
Status:	Open - Site Assessment
Status Date:	04/16/1999
Global Id:	T0607302664
Status:	Open - Site Assessment

LANCAIR CORP (Continued) **1000437555**

Status Date: 01/29/2010

Regulatory Activities:

Global Id: T0607302664
Action Type: ENFORCEMENT
Date: 07/02/2012
Action: Closure/No Further Action Letter

Global Id: T0607302664
Action Type: Other
Date: 03/25/1999
Action: Leak Reported

Global Id: T0607302664
Action Type: RESPONSE
Date: 02/08/2010
Action: Risk Assessment Report

Global Id: T0607302664
Action Type: ENFORCEMENT
Date: 07/31/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302664
Action Type: ENFORCEMENT
Date: 12/08/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302664
Action Type: ENFORCEMENT
Date: 05/11/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302664
Action Type: Other
Date: 03/25/1999
Action: Leak Stopped

Global Id: T0607302664
Action Type: Other
Date: 03/25/1999
Action: Leak Began

Global Id: T0607302664
Action Type: ENFORCEMENT
Date: 07/13/2009
Action: Letter - Notice

Global Id: T0607302664
Action Type: ENFORCEMENT
Date: 04/26/1999
Action: Notice of Responsibility

Global Id: T0607302664
Action Type: Other
Date: 03/25/1999
Action: Leak Discovery

LANCAIR CORP (Continued) **1000437555**

Region:	STATE
Global Id:	T0607301156
Latitude:	32.5690714
Longitude:	-116.9851602
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/07/2003
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT2390
LOC Case Number:	H10618-004
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607301156
Status:	Completed - Case Closed
Status Date:	07/07/2003
Global Id:	T0607301156
Status:	Open - Case Begin Date
Status Date:	03/17/1989

Regulatory Activities:

Global Id:	T0607301156
Action Type:	Other
Date:	03/17/1989
Action:	Leak Discovery
Global Id:	T0607301156
Action Type:	Other
Date:	03/17/1989
Action:	Leak Began
Global Id:	T0607301156
Action Type:	Other
Date:	03/17/1989
Action:	Leak Reported
Global Id:	T0607301156
Action Type:	ENFORCEMENT
Date:	03/30/1989
Action:	Notice of Responsibility
Global Id:	T0607301156
Action Type:	Other
Date:	03/17/1989
Action:	Leak Stopped

Region:	STATE
Global Id:	T0607300601

LANCAIR CORP (Continued) **1000437555**

Latitude:	32.5709028780514
Longitude:	-116.99285030365
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	01/20/2010
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	TS
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9UT1812
LOC Case Number:	H10618-016
File Location:	Local Agency
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Aviation
Site History:	Case H10618-016 is being administratively consolidated with other Fuel Farm cases/releases H10618-017, -018, -019, -022, -023 in January 2010. Releases -017, -018, -019, -022, and -023 are being administratively closed by DEH. Further investigation and closure of these releases (described below) will be addressed and funded under Case H10618-016. Please note that releases -002 (Industrial Park) and -024 (Bearden Aviation) are not considered part of the Fuel Farm and will be investigated and closed separately. The results of initial assessment activities for release -016 and additional releases (-017, -018, -019, -022, -023, -024) from 7 other leaking tanks in the Fuel Farm area are provided in the Subsurface Assessment Report, dated May 11, 2007, and prepared by SCS Engineers. The USTs, which all contained aviation fuel, were removed from the Fuel Farm in the early 1990s. A soil vapor study was conducted across the Fuel Farm site in November 2008 to assess potential health risks (SEE REPORT UNDER SITE DOCUMENTS). Baesed on the results, the consultant concluded that there is no significant risk to human health at the site, under a commercial exposure scenario, resulting from potential exposure to BTEX vapors migrating from soil containing hydrocarbons at the site. The reguired additional investigation of the extent of soil and groundwater petroleum contamination in the Fuel Farm area will be conducted as funding becomes available to the City of San Diego. Additional on-site and off-site assessment is needed in the northeast, east, and southeast directions. Soil benzene concentrations are high at depths of approximately 60 to 75 feet across the site. Depth to groundwater at the Fuel Farm site is approximately 200 feet below ground surface (bgs). Release -016: Refers to one leaking underground storage tank (UST #9) located within the former Fuel Farm portion of Brown Field Airport. UST 9 was a 50,000 gallon capacity concrete tank that formerly contained jet fuel/aviation gas- built in the 1940s. Approximately 700 cubic yards of contaminated soil was removed and stockpiled from the UST #9 excavation. Two borings, B-11 in 1997 (total depth 35 feet), and B-14 in 2006 (total depth 210 feet), were installed in the vicinity of UST 9. Total Petroleum Hydrocarbons (TPH) as gas and diesel were not detected in soil samples collected from B-11. TPH as gasoline was reported in B-14 soil samples collected at 15 ft. (89 mg/kg) and 80 ft. (610), and TPH as diesel was detected in the 15 ft. sample at a concentration of 760 mg/kg. Release -017: Refers to one leaking underground storage tank (UST #12) located within the former Fuel Farm portion of Brown Field Airport. UST 12 was a 50,000 gallon capacity concrete tank that formerly contained jet fuel/aviation gas- built in the 1940s. Removed October 10, 1990. Contamination was observed. Approximately 280 cubic yards of contaminated soil was

LANCAIR CORP (Continued) **1000437555**

removed and stockpiled from the UST #12 excavation. Overexcavation was continued to a maximum depth of 35 feet below grade. Total petroleum hydrocarbons (TPH) concentrations were still elevated in the NE and NW sidewalls, at 2,050 and 1,100 mg/kg, respectively. Release -018: Refers to one leaking underground storage tank (UST #13) located within the former Fuel Farm portion of Brown Field Airport. UST 13 was a 25,000 gallon capacity concrete tank that formerly contained jet fuel/aviation gas- built in the 1940s. Removed October 10, 1990. Approx. 150 cubic yards of contaminated soil was removed and stockpiled from the UST #13 excavation. Two soil samples collected after excavation at a depth of approximately 34 feet bgs contained TPH levels of 1,780 and 1,620 mg/kg. Release -019: Refers to one leaking underground storage tank (UST #8) located within the former Fuel Farm portion of Brown Field Airport. UST 8 was a 50,000 gallon capacity concrete tank that formerly contained jet fuel/aviation gas- built in the 1940s. Removed October 10, 1990. Approx. 40 cubic yards of contaminated soil was removed and stockpiled from the UST #8 excavation. A TPH concentration of 3,770 mg/kg was reported in a soil sample collected from the north end of the tank pit at a depth of 21 ft. bgs. Release -022: USTs 16 and 17 were manifolded by an underground fuel transfer system which fed through a central pipe vault. Release -022 refers to one leaking underground storage tank (UST #16) located within the former Fuel Farm portion of Brown Field Airport. UST 16 was a 220,000 gallon capacity concrete and steel tank that formerly contained jet fuel/aviation gas- built in the 1940s. The tank may also have contained diesel in the 1970s. UST #16 was removed in March 1991. Approx. 2500 cubic yards of contaminated soil was removed and stockpiled from the combined UST #16 and UST#17 excavations. A soil sample collected at the bottom of the pipe vault excavation (48 ft. bgs) had a TPH concentration of 1,520 mg/kg. Sidewall samples ranged from 20 to 4,800 mg/kg TPH. TPH concentrations in samples collected at the bottom of USTs 16 and 17 excavations were below detection limits. Release -023: USTs 16 and 17 were manifolded by an underground fuel transfer system which fed through a central pipe vault. Release -023 is referred to in the case files as the tank vault (between UST 16 and 17) and as UST #17, a leaking underground storage tank located within the former Fuel Farm portion of Brown Field Airport. UST 17 was a 220,000 gallon capacity concrete tank that formerly contained jet fuel/aviation gas- built in the 1940s. UST #17 and the vault were removed in March 1991. Approx. 2500 cubic yards of contaminated soil was removed and stockpiled from the combined UST #16 and UST#17 excavations. A soil sample collected at the bottom of the pipe vault excavation (48 ft. bgs) had a TPH concentration of 1,520 mg/kg. Sidewall samples ranged from 20 to 4,800 mg/kg TPH. TPH concentrations in samples collected at the bottom of USTs 16 and 17 excavations were below detection limits.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607300601
Contact Type:	Local Agency Caseworker
Contact Name:	TERESA SHERMAN
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	teresa.sherman@sdcounty.ca.gov

LANCAIR CORP (Continued) **1000437555**

Phone Number: Not reported

Status History:

Global Id: T0607300601
Status: Open - Case Begin Date
Status Date: 10/10/1990

Global Id: T0607300601
Status: Open - Remediation
Status Date: 11/03/1992

Global Id: T0607300601
Status: Open - Remediation
Status Date: 10/21/2009

Global Id: T0607300601
Status: Open - Site Assessment
Status Date: 10/26/2009

Global Id: T0607300601
Status: Open - Site Assessment
Status Date: 01/20/2010

Regulatory Activities:

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 10/19/1990
Action: Notice of Responsibility

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 04/28/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 01/04/2017
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 01/06/2016
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 05/14/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: RESPONSE
Date: 12/04/2014
Action: Correspondence

Global Id: T0607300601
Action Type: ENFORCEMENT

LANCAIR CORP (Continued) **1000437555**

Date: 10/30/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: Other
Date: 10/10/1990
Action: Leak Began

Global Id: T0607300601
Action Type: Other
Date: 10/10/1990
Action: Leak Reported

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 10/21/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 01/22/2010
Action: Letter - Notice

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 01/22/2010
Action: Letter - Notice

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 12/04/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: Other
Date: 10/10/1990
Action: Leak Discovery

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 06/08/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 05/31/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 03/19/2015
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 07/31/2008
Action: Technical Correspondence / Assistance / Other

LANCAIR CORP (Continued) **1000437555**

Global Id: T0607300601
Action Type: RESPONSE
Date: 10/19/2015
Action: Other Report / Document

Global Id: T0607300601
Action Type: RESPONSE
Date: 12/21/2015
Action: Other Report / Document

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 08/20/2015
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 01/12/2015
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 12/03/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: RESPONSE
Date: 08/07/2015
Action: Email Correspondence

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 01/22/2010
Action: Letter - Notice

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 01/22/2010
Action: Letter - Notice

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 02/02/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 01/22/2010
Action: Letter - Notice

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 01/05/2017
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: Other

LANCAIR CORP (Continued) **1000437555**

Date: 10/10/1990
Action: Leak Stopped

Global Id: T0607300601
Action Type: RESPONSE
Date: 01/25/2016
Action: Other Report / Document

Global Id: T0607300601
Action Type: RESPONSE
Date: 11/23/2015
Action: Other Report / Document

Global Id: T0607300601
Action Type: RESPONSE
Date: 02/14/2017
Action: Other Report / Document

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 11/18/2015
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: RESPONSE
Date: 01/13/2017
Action: Other Report / Document

Global Id: T0607300601
Action Type: RESPONSE
Date: 02/11/2010
Action: Risk Assessment Report - Regulator Responded

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 07/31/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 12/21/2016
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 08/20/2015
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 03/16/2015
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 01/06/2016
Action: Technical Correspondence / Assistance / Other

LANCAIR CORP (Continued) **1000437555**

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 07/13/2009
Action: Letter - Notice

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 10/22/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: RESPONSE
Date: 06/05/2013
Action: Soil and Water Investigation Report

Global Id: T0607300601
Action Type: RESPONSE
Date: 04/28/2011
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T0607300601
Action Type: RESPONSE
Date: 02/21/2012
Action: Site Assessment Report - Regulator Responded

Global Id: T0607300601
Action Type: RESPONSE
Date: 10/11/2012
Action: Soil and Water Investigation Workplan - Addendum - Regulator Responded

Global Id: T0607300601
Action Type: RESPONSE
Date: 01/10/2014
Action: Monitoring Report - Quarterly - Regulator Responded

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 10/15/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 12/08/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: ENFORCEMENT
Date: 09/03/2015
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300601
Action Type: RESPONSE
Date: 03/18/2015
Action: Other Workplan - Regulator Responded

Global Id: T0607300601
Action Type: RESPONSE

LANCAIR CORP (Continued) **1000437555**

Date:	01/30/2015
Action:	Monitoring Report - Quarterly - Regulator Responded
Global Id:	T0607300601
Action Type:	RESPONSE
Date:	06/03/2015
Action:	Corrective Action Plan / Remedial Action Plan - Regulator Responded
Global Id:	T0607300601
Action Type:	RESPONSE
Date:	09/23/2015
Action:	Request for Closure - Regulator Responded
Global Id:	T0607300601
Action Type:	RESPONSE
Date:	08/13/2015
Action:	Monitoring Report - Quarterly - Regulator Responded
Global Id:	T0607300601
Action Type:	ENFORCEMENT
Date:	02/21/2014
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607300601
Action Type:	RESPONSE
Date:	11/03/2016
Action:	Request for Closure - Regulator Responded

Region:	STATE
Global Id:	T0607300589
Latitude:	32.56879
Longitude:	-116.9855062
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/26/2010
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	TS
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9UT1797
LOC Case Number:	H10618-018
File Location:	Local Agency
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Aviation
Site History:	Note: Case #H10618-018 is being administratively consolidated with case #H10618-016 (both aviation gasoline releases in the Fuel Farm Area of the Brown Field airport) in January 2010, and release -018 is being administratively closed by DEH. The Fuel Farm releases, including -018, will be investigated and closed under release -016. Please see case #H10618-016 (Global ID T0607300601) for additional case information. Release -018 refers to one leaking underground storage tank (UST #13) located within the former Fuel Farm portion of Brown Field Airport. UST 13 was a 25,000 gallon capacity concrete tank that formerly contained jet fuel/aviation gas- built in the 1940s. The results of initial assessment activities for release -018 and additional releases (-016, -017, -019, -022, -023, -024) from 7 other leaking tanks in the Fuel Farm area are provided in the

LANCAIR CORP (Continued) **1000437555**

Subsurface Assessment Report, dated May 11, 2007, and prepared by SCS Engineers (SEE REPORT UNDER RELEASE -016). The USTs, which all contained aviation fuel, were removed from the Fuel Farm on October 10, 1990. Approx. 150 cubic yards of contaminated soil was removed and stockpiled from the UST #13 excavation. Release -018 is included in the overall investigation of the Fuel Farm site. A soil vapor study was conducted at the site in November 2008 to assess potential health risks. Additional investigation of the extent of soil and groundwater petroleum contamination in the Fuel Farm area will be conducted as funding becomes available to the City of San Diego.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607300589
Contact Type:	Local Agency Caseworker
Contact Name:	TERESA SHERMAN
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	teresa.sherman@sdcounty.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0607300589
Status:	Completed - Case Closed
Status Date:	01/26/2010
Global Id:	T0607300589
Status:	Open - Case Begin Date
Status Date:	10/12/1990
Global Id:	T0607300589
Status:	Open - Remediation
Status Date:	11/03/1992
Global Id:	T0607300589
Status:	Open - Site Assessment
Status Date:	10/26/2009
Global Id:	T0607300589
Status:	Open - Site Assessment
Status Date:	01/20/2010

Regulatory Activities:

Global Id:	T0607300589
Action Type:	ENFORCEMENT
Date:	10/23/1990
Action:	Notice of Responsibility
Global Id:	T0607300589
Action Type:	ENFORCEMENT
Date:	04/28/2009
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607300589
Action Type:	ENFORCEMENT

LANCAIR CORP (Continued) **1000437555**

Date: 07/31/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300589
Action Type: Other
Date: 10/12/1990
Action: Leak Began

Global Id: T0607300589
Action Type: ENFORCEMENT
Date: 07/13/2009
Action: Letter - Notice

Global Id: T0607300589
Action Type: Other
Date: 10/22/1990
Action: Leak Reported

Global Id: T0607300589
Action Type: ENFORCEMENT
Date: 10/21/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300589
Action Type: ENFORCEMENT
Date: 01/22/2010
Action: Closure/No Further Action Letter

Global Id: T0607300589
Action Type: Other
Date: 10/12/1990
Action: Leak Discovery

Global Id: T0607300589
Action Type: ENFORCEMENT
Date: 10/30/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300589
Action Type: Other
Date: 10/12/1990
Action: Leak Stopped

Global Id: T0607300589
Action Type: ENFORCEMENT
Date: 07/31/2008
Action: Technical Correspondence / Assistance / Other

Region: STATE
Global Id: T0607301153
Latitude: 32.56879
Longitude: -116.9855062
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 05/23/2011
Lead Agency: SAN DIEGO COUNTY LOP

LANCAIR CORP (Continued) **1000437555**

Case Worker:	TS
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9UT2388
LOC Case Number:	H10618-002
File Location:	Local Agency
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Aviation, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Brown Field Airport is a civilian airport operated by the City of San Diego. Please note that releases -002 (Industrial Park Area) and -024 (Bearden Aviation) are not considered part of the Fuel Farm Area (see case H10618-016) of the airport and will be investigated and closed separately. Release 002: Underground storage tanks (USTs) 5 and 27 were located between Curran Street and the adjoining taxi apron in the Industrial Park area. The site is located in the Industrial Park Area of the Brown Field Airport, between Curran Street and the adjoining taxi apron. On March 17, 1989, two underground storage tanks (USTs), Tank 5, a 12,000-gallon steel UST that had stored aviation gas, and Tank 27, a 500-gallon steel waste oil UST, were removed from a common excavation on the site. Tank 5 had failed a precision test in November 1987. During the tank removal, holes were visible in both tanks, and visible soil contamination was observed under Tank #27. Based on these observations, an unauthorized release case (#H10816-002) was immediately opened for the site. Subsequent analyses of soil samples collected on March 21, 1989 below Tank 5 showed a maximum total petroleum hydrocarbons (TPH) concentration of 95.5 milligrams per kilogram (mg/kg), and indicated contamination by weathered gasoline. On March 22 to March 30, 1989, the Tank 5/Tank 27 excavation pit was overexcavated to a depth of approximately 14 to 15 feet below ground surface (bgs) in the former Tank 27 area, and as deep as 25.5 feet bgs in the former Tank 5 area. Fifteen confirmation soil samples were collected from the side walls, end walls, and bottom of the excavation after the soil removal. A maximum TPH concentration of 71.2 mg/kg was reported in one of ten soil samples collected in the vicinity of the former aviation gas UST (Tank 5), and organic lead was not detected in the sample. Five soil samples were collected in the waste oil UST (Tank 27) area. The highest reported Total Recoverable Petroleum Hydrocarbons (TRPH) concentration was 325 mg/kg, and total chromium was reported at a maximum level of 6 mg/kg. Organic lead and chlorinated solvents were not detected in the sample. According to the environmental consultants March 1990 report (which documented the 1989 overexcavation activities), material that was excavated from above a depth of approximately 14 or 15 feet bgs was presumed to be clean, and was stockpiled. The tank excavation was later partially backfilled with this stockpiled soil (which had a maximum sample TPH concentration of 44.5 mg/kg), then clean imported fill was used to complete the excavation closure. Excavated soil below approximately 14 or 15 feet (a total of approximately 320 to 384 cubic yards) was presumed to be contaminated and was transported to the Brown Field Fuel Farm contaminated soil storage area and stockpiled. The Fuel Farm contaminated soil storage area also contained impacted soil from other UST removal locations at Brown Field. The soil stockpiles were allowed to attenuate naturally until sampling results indicated that the soil could be re-used at Brown Field. In 2009, approximately 100 cubic yards of remaining stockpiled soil was sampled by an environmental consultant and approved for on-site reuse by DEH/SAM. On September 25, 1997, in accordance with a DEH/SAM approved

LANCAIR CORP (Continued) **1000437555**

workplan, one boring, B-18, was placed in the Tank 5/Tank 27 excavation. According to the Site Assessment Report, dated March 3, 1998, B-18 was drilled to a depth of 36.5 feet bgs in a location between former Tanks 5 and 27. Soil samples were collected from the boring at depths of 5, 10, 15, 25, 30, and 35 feet bgs. TRPH was only detected in the soil sample collected at 15 feet bgs, with a reported concentration of 14 mg/kg. Groundwater was not encountered in the boring at 36.5 feet bgs. Based on reported depth to groundwater measurements in wells located in the nearby Fuel Farm area, groundwater is present at a depth of approximately 179 to 189 feet bgs in the vicinity of the site. The 1998 Site Assessment Report states that the primary sources of contamination (USTs and approximately 350 cubic yards of impacted soil) have been removed and that the extent of impacted soil has been assessed by the overexcavation activities and the soil boring in the tank excavation. The consultant concludes that the concentrations of residual petroleum hydrocarbons in remaining soil do not support the possibility of contaminant migration that could affect human health, groundwater, or surface water, and, therefore, recommends no further action at the site.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607301153
Contact Type:	Local Agency Caseworker
Contact Name:	TERESA SHERMAN
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	teresa.sherman@sdcounty.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0607301153
Status:	Completed - Case Closed
Status Date:	05/23/2011
Global Id:	T0607301153
Status:	Open - Case Begin Date
Status Date:	03/17/1989
Global Id:	T0607301153
Status:	Open - Remediation
Status Date:	04/14/1989
Global Id:	T0607301153
Status:	Open - Site Assessment
Status Date:	12/09/2009
Global Id:	T0607301153
Status:	Open - Site Assessment
Status Date:	01/28/2010

Regulatory Activities:

Global Id:	T0607301153
Action Type:	ENFORCEMENT

LANCAIR CORP (Continued) **1000437555**

Date:	07/13/2009
Action:	Letter - Notice
Global Id:	T0607301153
Action Type:	Other
Date:	03/17/1989
Action:	Leak Discovery
Global Id:	T0607301153
Action Type:	Other
Date:	03/17/1989
Action:	Leak Began
Global Id:	T0607301153
Action Type:	Other
Date:	03/17/1989
Action:	Leak Reported
Global Id:	T0607301153
Action Type:	ENFORCEMENT
Date:	03/30/1989
Action:	Notice of Responsibility
Global Id:	T0607301153
Action Type:	Other
Date:	03/17/1989
Action:	Leak Stopped
Global Id:	T0607301153
Action Type:	ENFORCEMENT
Date:	05/23/2011
Action:	Closure/No Further Action Letter
Global Id:	T0607301153
Action Type:	REMEDIATION
Date:	03/22/1989
Action:	Excavation

Region:	STATE
Global Id:	T0607300766
Latitude:	32.56879
Longitude:	-116.9855062
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/26/2010
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	TS
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9UT1992
LOC Case Number:	H10618-022
File Location:	Local Agency
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Aviation
Site History:	Note: Case #H10618-022 is being administratively consolidated with case #H10618-016 (both aviation gasoline releases in the Fuel Farm Area of the Brown Field airport) in January 2010, and release -022 is

LANCAIR CORP (Continued) **1000437555**

being administratively closed by DEH. The Fuel Farm releases, including -022, will be investigated and closed under release -016. Please see case #H10618-016 (Global ID T0607300601) for additional case information. Release -022: USTs 16 and 17 were manifolded by an underground fuel transfer system which fed through a central pipe vault. Release -022 refers to one leaking underground storage tank (UST #16) located within the former Fuel Farm portion of Brown Field Airport. UST 16 was a 220,000 gallon capacity concrete and steel tank that formerly contained jet fuel/aviation gas- built in the 1940s. The tank may also have contained diesel in the 1970s. UST #16 was removed in March 1991. Approx. 2500 cubic yards of contaminated soil was removed and stockpiled from the combined UST #16 and UST#17 excavations. A soil sample collected at the bottom of the pipe vault excavation (48 ft. bgs) had a TPH concentration of 1,520 mg/kg. Sidewall samples ranged from 20 to 4,800 mg/kg TPH. TPH concentrations in samples collected at the bottom of USTs 16 and 17 excavations were below detection limits. Release -022 is included in the overall investigation of the Fuel Farm site. The results of initial assessment activities for release -022 and additional releases (-016, -017, -018, -019, -023, -024) from 7 other leaking tanks in the Fuel Farm area are provided in the Subsurface Assessment Report, dated May 11, 2007, and prepared by SCS Engineers (SEE REPORT UNDER RELEASE -016). A soil vapor study was conducted at the site in November 2008 to assess potential health risks. Additional investigation of the extent of soil and groundwater petroleum contamination in the Fuel Farm area will be conducted as funding becomes available to the City of San Diego.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607300766
Contact Type:	Local Agency Caseworker
Contact Name:	TERESA SHERMAN
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	teresa.sherman@sdcounty.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0607300766
Status:	Completed - Case Closed
Status Date:	01/26/2010
Global Id:	T0607300766
Status:	Open - Case Begin Date
Status Date:	04/22/1990
Global Id:	T0607300766
Status:	Open - Remediation
Status Date:	11/03/1992
Global Id:	T0607300766
Status:	Open - Remediation
Status Date:	10/26/2009

LANCAIR CORP (Continued) **1000437555**

Global Id: T0607300766
Status: Open - Site Assessment
Status Date: 12/09/2009

Global Id: T0607300766
Status: Open - Site Assessment
Status Date: 01/20/2010

Global Id: T0607300766
Status: Open - Site Assessment
Status Date: 01/21/2010

Regulatory Activities:
Global Id: T0607300766
Action Type: ENFORCEMENT
Date: 04/22/1990
Action: Notice of Responsibility

Global Id: T0607300766
Action Type: ENFORCEMENT
Date: 04/28/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300766
Action Type: ENFORCEMENT
Date: 10/30/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300766
Action Type: Other
Date: 04/17/1991
Action: Leak Began

Global Id: T0607300766
Action Type: Other
Date: 04/17/1991
Action: Leak Reported

Global Id: T0607300766
Action Type: ENFORCEMENT
Date: 01/22/2010
Action: Closure/No Further Action Letter

Global Id: T0607300766
Action Type: ENFORCEMENT
Date: 07/31/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300766
Action Type: Other
Date: 04/17/1991
Action: Leak Discovery

Global Id: T0607300766
Action Type: Other
Date: 04/17/1991
Action: Leak Stopped

LANCAIR CORP (Continued) **1000437555**

Global Id:	T0607300766
Action Type:	ENFORCEMENT
Date:	07/13/2009
Action:	Letter - Notice

Global Id:	T0607300766
Action Type:	ENFORCEMENT
Date:	10/21/2009
Action:	Technical Correspondence / Assistance / Other

Region:	STATE
Global Id:	T0607300588
Latitude:	32.56879
Longitude:	-116.9855062
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/26/2010
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	TS
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9UT1796
LOC Case Number:	H10618-019
File Location:	Local Agency
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Aviation
Site History:	Note: Case #H10618-019 is being administratively consolidated with case #H10618-016 (both aviation gasoline releases in the Fuel Farm Area of the Brown Field airport) in January 2010, and release -019 is being administratively closed by DEH. The Fuel Farm releases, including -019, will be investigated and closed under release -016. Please see case #H10618-016 (Global ID T0607300601) for additional case information. Release -019 refers to one leaking underground storage tank (UST #8) located within the former Fuel Farm portion of Brown Field Airport. UST 8 was a 50,000 gallon capacity concrete tank that formerly contained jet fuel/aviation gas- built in the 1940s. The results of initial assessment activities for release -019 and additional releases (-016, -017, -018, -022, -023, -024) from 7 other leaking tanks in the Fuel Farm area are provided in the Subsurface Assessment Report, dated May 11, 2007, and prepared by SCS Engineers (SEE REPORT UNDER RELEASE -016). The USTs, which all contained aviation fuel, were removed from the Fuel Farm on October 10, 1990. Approx. 40 cubic yards of contaminated soil was removed and stockpiled from the UST #8 excavation. Release -019 is included in the overall investigation of the Fuel Farm site. A soil vapor study was conducted at the site in November 2008 to assess potential health risks. Additional investigation of the extent of soil and groundwater petroleum contamination in the Fuel Farm area will be conducted as funding becomes available to the City of San Diego.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607300588
Contact Type:	Local Agency Caseworker
Contact Name:	TERESA SHERMAN
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261

LANCAIR CORP (Continued) **1000437555**

City: San Diego
Email: teresa.sherman@sdcounty.ca.gov
Phone Number: Not reported

Status History:

Global Id: T0607300588
Status: Completed - Case Closed
Status Date: 01/26/2010

Global Id: T0607300588
Status: Open - Case Begin Date
Status Date: 10/12/1990

Global Id: T0607300588
Status: Open - Remediation
Status Date: 11/03/1992

Global Id: T0607300588
Status: Open - Site Assessment
Status Date: 10/26/2009

Global Id: T0607300588
Status: Open - Site Assessment
Status Date: 01/20/2010

Regulatory Activities:

Global Id: T0607300588
Action Type: ENFORCEMENT
Date: 10/23/1990
Action: Notice of Responsibility

Global Id: T0607300588
Action Type: ENFORCEMENT
Date: 07/31/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300588
Action Type: ENFORCEMENT
Date: 10/30/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300588
Action Type: Other
Date: 10/12/1990
Action: Leak Began

Global Id: T0607300588
Action Type: ENFORCEMENT
Date: 10/21/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300588
Action Type: Other
Date: 10/22/1990
Action: Leak Reported

LANCAIR CORP (Continued) **1000437555**

Global Id:	T0607300588
Action Type:	ENFORCEMENT
Date:	01/22/2010
Action:	Closure/No Further Action Letter

Global Id:	T0607300588
Action Type:	Other
Date:	10/12/1990
Action:	Leak Discovery

Global Id:	T0607300588
Action Type:	ENFORCEMENT
Date:	07/31/2008
Action:	Technical Correspondence / Assistance / Other

Global Id:	T0607300588
Action Type:	Other
Date:	10/12/1990
Action:	Leak Stopped

Global Id:	T0607300588
Action Type:	ENFORCEMENT
Date:	07/13/2009
Action:	Letter - Notice

Global Id:	T0607300588
Action Type:	ENFORCEMENT
Date:	04/28/2009
Action:	Technical Correspondence / Assistance / Other

Region:	STATE
Global Id:	T0607302978
Latitude:	32.5690714
Longitude:	-116.9851602
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	03/04/1987
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT712
LOC Case Number:	H10618-001
File Location:	Local Agency
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607302978
Status:	Completed - Case Closed
Status Date:	03/04/1987

Global Id:	T0607302978
Status:	Open - Case Begin Date
Status Date:	02/09/1987

LANCAIR CORP (Continued) **1000437555**

Region:	STATE
Global Id:	T0607301160
Latitude:	32.5690714
Longitude:	-116.9851602
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/07/2003
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT2394
LOC Case Number:	H10618-008
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607301160
Status:	Completed - Case Closed
Status Date:	07/07/2003
Global Id:	T0607301160
Status:	Open - Case Begin Date
Status Date:	04/14/1989

Regulatory Activities:

Global Id:	T0607301160
Action Type:	Other
Date:	04/14/1989
Action:	Leak Began
Global Id:	T0607301160
Action Type:	Other
Date:	04/14/1989
Action:	Leak Reported
Global Id:	T0607301160
Action Type:	ENFORCEMENT
Date:	05/05/1989
Action:	Notice of Responsibility
Global Id:	T0607301160
Action Type:	Other
Date:	04/14/1989
Action:	Leak Discovery
Global Id:	T0607301160
Action Type:	Other
Date:	04/14/1989
Action:	Leak Stopped

Region:	STATE
Global Id:	T0607300288

LANCAIR CORP (Continued) **1000437555**

Latitude:	32.56879
Longitude:	-116.9855062
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/21/2003
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT1467
LOC Case Number:	H10618-015
File Location:	Local Agency
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607300288
Status:	Completed - Case Closed
Status Date:	08/21/2003

Global Id:	T0607300288
Status:	Open - Case Begin Date
Status Date:	04/11/1989

Regulatory Activities:

Global Id:	T0607300288
Action Type:	ENFORCEMENT
Date:	07/07/1989
Action:	Notice of Responsibility

Global Id:	T0607300288
Action Type:	Other
Date:	06/06/1989
Action:	Leak Began

Global Id:	T0607300288
Action Type:	Other
Date:	06/23/1989
Action:	Leak Reported

Global Id:	T0607300288
Action Type:	Other
Date:	06/06/1989
Action:	Leak Discovery

Global Id:	T0607300288
Action Type:	Other
Date:	04/11/1989
Action:	Leak Stopped

Region:	STATE
Global Id:	T0607301158
Latitude:	32.5690714
Longitude:	-116.9851602

LANCAIR CORP (Continued) **1000437555**

Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/07/2003
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT2392
LOC Case Number:	H10618-006
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607301158
Status:	Completed - Case Closed
Status Date:	07/07/2003
Global Id:	T0607301158
Status:	Open - Case Begin Date
Status Date:	03/17/1989

Regulatory Activities:

Global Id:	T0607301158
Action Type:	Other
Date:	03/17/1989
Action:	Leak Discovery
Global Id:	T0607301158
Action Type:	Other
Date:	03/17/1989
Action:	Leak Began
Global Id:	T0607301158
Action Type:	Other
Date:	03/17/1989
Action:	Leak Reported
Global Id:	T0607301158
Action Type:	Other
Date:	03/17/1989
Action:	Leak Stopped

Region:	STATE
Global Id:	T0607301164
Latitude:	32.5690714
Longitude:	-116.9851602
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/01/2003
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT2398

LANCAIR CORP (Continued) **1000437555**

LOC Case Number:	H10618-012
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607301164
Status:	Completed - Case Closed
Status Date:	07/01/2003
Global Id:	T0607301164
Status:	Open - Case Begin Date
Status Date:	04/14/1989

Regulatory Activities:

Global Id:	T0607301164
Action Type:	ENFORCEMENT
Date:	05/05/1989
Action:	Notice of Responsibility
Global Id:	T0607301164
Action Type:	Other
Date:	04/14/1989
Action:	Leak Began
Global Id:	T0607301164
Action Type:	Other
Date:	04/14/1989
Action:	Leak Reported
Global Id:	T0607301164
Action Type:	Other
Date:	04/14/1989
Action:	Leak Discovery
Global Id:	T0607301164
Action Type:	Other
Date:	04/14/1989
Action:	Leak Stopped

Region:	STATE
Global Id:	T0607301161
Latitude:	32.56879
Longitude:	-116.9855062
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/19/2003
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT2395
LOC Case Number:	H10618-009
File Location:	Local Agency

LANCAIR CORP (Continued) **1000437555**

Potential Media Affect: Soil
Potential Contaminants of Concern: Heating Oil / Fuel Oil
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:
Global Id: T0607301161
Status: Completed - Case Closed
Status Date: 09/19/2003

Global Id: T0607301161
Status: Open - Case Begin Date
Status Date: 04/14/1989

Regulatory Activities:
Global Id: T0607301161
Action Type: Other
Date: 04/14/1989
Action: Leak Began

Global Id: T0607301161
Action Type: Other
Date: 04/14/1989
Action: Leak Reported

Global Id: T0607301161
Action Type: ENFORCEMENT
Date: 05/05/1989
Action: Notice of Responsibility

Global Id: T0607301161
Action Type: Other
Date: 04/14/1989
Action: Leak Discovery

Global Id: T0607301161
Action Type: Other
Date: 04/14/1989
Action: Leak Stopped

Region: STATE
Global Id: T0607301163
Latitude: 32.56879
Longitude: -116.9855062
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/13/2003
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT2397
LOC Case Number: H10618-011
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Heating Oil / Fuel Oil

LANCAIR CORP (Continued) **1000437555**

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607301163
Status:	Completed - Case Closed
Status Date:	06/13/2003
Global Id:	T0607301163
Status:	Open - Case Begin Date
Status Date:	04/14/1989

Regulatory Activities:

Global Id:	T0607301163
Action Type:	ENFORCEMENT
Date:	05/05/1989
Action:	Notice of Responsibility
Global Id:	T0607301163
Action Type:	Other
Date:	04/14/1989
Action:	Leak Began
Global Id:	T0607301163
Action Type:	Other
Date:	04/14/1989
Action:	Leak Reported
Global Id:	T0607301163
Action Type:	Other
Date:	04/14/1989
Action:	Leak Discovery
Global Id:	T0607301163
Action Type:	Other
Date:	04/14/1989
Action:	Leak Stopped

LUST REG 9:

Region:	9
Status:	Preliminary site assessment underway
Case Number:	9UT1467
Local Case:	H10618-015
Substance:	Diesel
Qty Leaked:	Not reported
Abate Method:	Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming)
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Unknown
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	06/23/1989

LANCAIR CORP (Continued) **1000437555**

Date Stopped: 06/23/1989
Confirm Date: 06/23/1989
Submit Workplan: Not reported
Prelim Assess: 07/19/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 06/23/1989
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: Not reported
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT1933
Local Case: H10618-020
Substance: Boiler Fuel
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Aquifer affected
Date Found: 12/06/1990
Date Stopped: 12/06/1990
Confirm Date: 12/06/1990
Submit Workplan: Not reported
Prelim Assess: 12/06/1990
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 12/06/1990
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: Not reported
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed

LANCAIR CORP (Continued) **1000437555**

Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT1942
Local Case: H10618-023
Substance: Diesel
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Aquifer affected
Date Found: 04/19/1991
Date Stopped: 04/19/1991
Confirm Date: 04/30/1991
Submit Workplan: 5/16/91
Prelim Assess: 05/29/1991
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 04/19/1991
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: Not reported
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: Not reported
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT1796
Local Case: H10618-019
Substance: Premium Gasoline
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Aquifer affected
Date Found: 10/12/1990

LANCAIR CORP (Continued) **1000437555**

Date Stopped: 10/12/1990
Confirm Date: 10/22/1990
Submit Workplan: Not reported
Prelim Assess: 10/22/1990
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 10/12/1990
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: UNK
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT1797
Local Case: H10618-018
Substance: Premium Gasoline
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Aquifer affected
Date Found: 10/12/1990
Date Stopped: 10/12/1990
Confirm Date: 10/22/1990
Submit Workplan: Not reported
Prelim Assess: 10/12/1990
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 10/12/1990
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: Not reported
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: Not reported

LANCAIR CORP (Continued) **1000437555**

Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT1811
Local Case: H10618-017
Substance: Premium Gasoline
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 10/10/1990
Date Stopped: 10/10/1990
Confirm Date: 10/19/1990
Submit Workplan: Not reported
Prelim Assess: 10/19/1990
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 10/10/1990
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: Not reported
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT1812
Local Case: H10618-016
Substance: Premium Gasoline
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 10/10/1990

LANCAIR CORP (Continued) **1000437555**

Date Stopped: 10/10/1990
Confirm Date: 10/19/1990
Submit Workplan: 10/19/90
Prelim Assess: 10/23/1990
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 10/10/1990
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: Not reported
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT1992
Local Case: H10618-022
Substance: Jet Fuel
Qty Leaked: Not reported
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 04/19/1991
Date Stopped: 04/19/1991
Confirm Date: 04/17/1991
Submit Workplan: Not reported
Prelim Assess: 04/17/1991
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 04/19/1991
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: Not reported
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed

LANCAIR CORP (Continued) **1000437555**

Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT2388
Local Case: H10618-002
Substance: Gasoline
Qty Leaked: 0
Abate Method: Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming)
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 03/17/1989
Date Stopped: 03/17/1989
Confirm Date: 03/17/1989
Submit Workplan: Not reported
Prelim Assess: 03/31/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 03/30/1989
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: Not reported
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT2389
Local Case: H10618-003
Substance: Diesel
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only

LANCAIR CORP (Continued) **1000437555**

Date Found: 03/17/1989
Date Stopped: 03/17/1989
Confirm Date: 03/17/1989
Submit Workplan: Not reported
Prelim Assess: 03/31/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 03/30/1989
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: Not reported
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT2390
Local Case: H10618-004
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 03/17/1989
Date Stopped: 03/17/1989
Confirm Date: 03/17/1989
Submit Workplan: Not reported
Prelim Assess: 03/31/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 03/30/1989
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: Not reported
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B

LANCAIR CORP (Continued) **1000437555**

File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT2391
Local Case: H10618-005
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 03/17/1989
Date Stopped: 03/17/1989
Confirm Date: 03/17/1989
Submit Workplan: Not reported
Prelim Assess: 03/31/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 03/30/1989
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: 400+
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT2392
Local Case: H10618-006
Substance: Waste Oil
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only

LANCAIR CORP (Continued) **1000437555**

Date Found: 03/17/1989
Date Stopped: 03/17/1989
Confirm Date: 04/06/1989
Submit Workplan: Not reported
Prelim Assess: 05/31/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 04/06/1989
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: 440+
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT2393
Local Case: H10618-007
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 03/17/1989
Date Stopped: 03/17/1989
Confirm Date: / /
Submit Workplan: Not reported
Prelim Assess: 05/31/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 04/06/1989
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: Not reported
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B

LANCAIR CORP (Continued) **1000437555**

File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT2394
Local Case: H10618-008
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming)
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 04/14/1989
Date Stopped: 04/14/1989
Confirm Date: 04/14/1989
Submit Workplan: Not reported
Prelim Assess: 05/31/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 05/04/1989
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: 440+
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT2395
Local Case: H10618-009
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming)
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown

LANCAIR CORP (Continued) **1000437555**

Lead Agency: Local Agency
Case Type: Soil only
Date Found: 04/14/1989
Date Stopped: 04/14/1989
Confirm Date: 04/14/1989
Submit Workplan: Not reported
Prelim Assess: 05/31/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 05/04/1989
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: Not reported
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT2396
Local Case: H10618-010
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming)
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 04/14/1989
Date Stopped: 04/14/1989
Confirm Date: 04/14/1989
Submit Workplan: Not reported
Prelim Assess: 05/31/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 05/04/1989
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: Not reported

LANCAIR CORP (Continued) **1000437555**

Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT2397
Local Case: H10618-011
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming)
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 04/14/1989
Date Stopped: 04/14/1989
Confirm Date: 04/14/1989
Submit Workplan: Not reported
Prelim Assess: 05/31/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 05/04/1989
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: 440’
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT2398
Local Case: H10618-012
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming)
Local Agency: San Diego
How Found: Tank Closure

LANCAIR CORP (Continued) **1000437555**

How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 04/14/1989
Date Stopped: 04/14/1989
Confirm Date: 04/14/1989
Submit Workplan: Not reported
Prelim Assess: 06/23/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 05/04/1989
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: Not reported
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT2399
Local Case: H10618-013
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming)
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 04/14/1989
Date Stopped: 04/14/1989
Confirm Date: 04/14/1989
Submit Workplan: Not reported
Prelim Assess: 05/31/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 05/04/1989
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported

LANCAIR CORP (Continued) **1000437555**

Pilot Program: LOP
Basin Number: 911.12
GW Depth: 440+
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Case Closed
Case Number: 9UT2400
Local Case: H10618-014
Substance: Water & Oil Mix
Qty Leaked: Not reported
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 04/14/1989
Date Stopped: 04/14/1989
Confirm Date: 04/14/1989
Submit Workplan: Not reported
Prelim Assess: 05/31/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 05/04/1989
Enforce Date: Not reported
Closed Date: 8/16/99
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: 5-45
Beneficial Use: MUNBU
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Case Closed
Case Number: 9UT712
Local Case: H10618-001
Substance: 0
Qty Leaked: 0
Abate Method: Not reported

LANCAIR CORP (Continued) **1000437555**

Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Tank
Cause: Corrosion
Lead Agency: Local Agency
Case Type: Aquifer affected
Date Found: 02/06/1987
Date Stopped: 02/06/1987
Confirm Date: / /
Submit Workplan: Not reported
Prelim Assess: / /
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 02/23/1987
Enforce Date: Not reported
Closed Date: 3/4/87
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: <10
Beneficial Use: Not reported
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: File archived, case closed and file moved to storage
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Case Closed
Case Number: 9UT692
Local Case: H19053-001
Substance: Premium Gasoline
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Tank
Cause: Overfill
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 04/16/1987
Date Stopped: 04/16/1987
Confirm Date: 04/16/1987
Submit Workplan: Not reported
Prelim Assess: / /
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 04/21/1987
Enforce Date: Not reported
Closed Date: 4/21/87

LANCAIR CORP (Continued) **1000437555**

Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 911.12
GW Depth: 300
Beneficial Use: Not reported
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SAN DIEGO CO. SAM:

Case Number: H10618-001
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 3/4/1987
Date Began: 2/9/1987

Case Number: H10618-002
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: Drinking Water Aquifer Impacted
Facility Status: Remedial Investigation
Date: 4/14/1989
Date Began: 3/17/1989

Case Number: H10618-003
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 9/11/2003
Date Began: 3/17/1989

Case Number: H10618-004
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 7/7/2003
Date Began: 3/17/1989

Case Number: H10618-005
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 9/11/2003
Date Began: 3/17/1989

Case Number: H10618-006
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: Soils Only

LANCAIR CORP (Continued) **1000437555**

Facility Status: Closed Case
Date: 7/7/2003
Date Began: 3/17/1989

Case Number: H10618-007
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 9/19/2003
Date Began: 3/17/1989

Case Number: H10618-008
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 7/7/2003
Date Began: 4/14/1989

Case Number: H10618-009
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 9/19/2003
Date Began: 4/14/1989

Case Number: H10618-011
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 6/13/2003
Date Began: 4/14/1989

Case Number: H10618-012
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 7/1/2003
Date Began: 4/14/1989

Case Number: H10618-013
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 6/13/2003
Date Began: 4/14/1989

Case Number: H10618-014
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: Soils Only
Facility Status: Closed Case

LANCAIR CORP (Continued) **1000437555**

Date:	8/16/1999
Date Began:	4/14/1989
Case Number:	H10618-015
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Drinking Water Aquifer Impacted
Facility Status:	Closed Case
Date:	8/21/2003
Date Began:	6/6/1989
Case Number:	H10618-016
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	Drinking Water Aquifer Impacted
Facility Status:	Remedial Investigation
Date:	10/21/2009
Date Began:	10/10/1990
Case Number:	H10618-017
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	Drinking Water Aquifer Impacted
Facility Status:	Closed Case
Date:	1/26/2010
Date Began:	10/10/1990
Case Number:	H10618-018
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	Drinking Water Aquifer Impacted
Facility Status:	Closed Case
Date:	1/26/2010
Date Began:	10/12/1990
Case Number:	H10618-019
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	Drinking Water Aquifer Impacted
Facility Status:	Closed Case
Date:	1/26/2010
Date Began:	10/12/1990
Case Number:	H10618-020
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Drinking Water Aquifer Impacted
Facility Status:	Closed Case
Date:	8/21/2003
Date Began:	12/6/1990
Case Number:	H10618-021
Agency:	DEH Site Assessment & Mitigation
Funding:	**Non Billable**
Facility Type:	Failed Integrity Test
Facility Status:	Closed Case
Date:	12/11/1990

LANCAIR CORP (Continued) **1000437555**

Date Began: 11/17/1987

Case Number: H10618-022
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: Drinking Water Aquifer Impacted
Facility Status: Closed Case
Date: 1/26/2010
Date Began: 4/17/1991

Case Number: H10618-023
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: Drinking Water Aquifer Impacted
Facility Status: Closed Case
Date: 1/28/2009
Date Began: 4/19/1991

Case Number: H10618-024
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: Drinking Water Aquifer Impacted
Facility Status: Preliminary Assessment
Date: 4/16/1999
Date Began: 3/25/1999

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 12/11/1990
Global Id: T0608160843
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H10618-021
Latitude: 32.569081
Longitude: -116.985176
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Under Investigation
Potential Contaminants of Concern: Aviation
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

AST:
Certified Unified Program Agencies: Not reported
Owner: CITY OF SAN DIEGO
Total Gallons: Not reported
CERSID: 10394515
Facility ID: 37-000-208013
Business Name: LANCAIR CORP
Phone: 619-671-9222
Fax: Not reported
Mailing Address: 1424 CONTINENTAL ST

LANCAIR CORP (Continued) **1000437555**

Mailing Address City:	SAN DIEGO
Mailing Address State:	CA
Mailing Address Zip Code:	92154
Operator Name:	LANCAIR CORP
Operator Phone:	619-671-9222
Owner Phone:	619-424-0455
Owner Mail Address:	1424 CONTINENTAL ST.
Owner State:	CA
Owner Zip Code:	92154
Owner Country:	United States
Property Owner Name:	CITY OF SAN DIEGO
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:	0
Property Owner Country:	United States
EPAID:	Not reported

HMMD SAN DIEGO:

Permit Number:	208013
Business Type:	6HK19
EPA Id Number:	Not reported
APN:	646-050-03-00
Last HMMD Inspection:	11/09/2010
Facility Telephone:	619-671-9222
Permit Status:	OPEN
Permit Expiration:	09/30/2013
Date Last Updated:	11/02/2012
Facility Owner:	LANCAIR CORP
Facility Address:	1424 CONTINENTAL ST
Facility City:	San Diego
Facility State:	CA
Facility Zip:	92154
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Y
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

IAP:

Permit Number:	208013
Update Date:	11/02/2012
Case Number:	50815-00-4
Name:	AVIATION FUEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	208013
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported

LANCAIR CORP (Continued) **1000437555**

Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

VAP:

Permit Number:	208013
Update Date:	11/02/2012
Inspection Date:	11/09/2010
Violation Code:	6HV5103
Violation:	SPCC PLAN NOT PREPARED
Violation Citation:	Failed to prepare a Spill Prevention Control and Countermeasures Plan. 25270.4.5(a), 25270.5 & 25270.12(a) [ref. CFR 112.3]
Activity:	ACTIVE

Permit Number:	208013
Update Date:	11/02/2012
Inspection Date:	11/09/2010
Violation Code:	6HV1017
Violation:	HMBP NOT CERTIFIED ANNUALLY
Violation Citation:	Business Plan not certified annually. 25505(d) & (e)(2)
Activity:	ACTIVE

Permit Number:	110618
Business Type:	Not reported
EPA Id Number:	CAD981988587
APN:	646-050-03-00
Last HMMD Inspection:	04/26/1994
Facility Telephone:	619-690-8355
Permit Status:	INAC
Permit Expiration:	Not reported
Date Last Updated:	11/02/2012
Facility Owner:	SAN DIEGO GEN SVCS DEPT CITY
Facility Address:	1424 CONTINENTAL ST
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92173-1708
UST Owner:	CITY OF SAN DIEGO
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 110618 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-1
Capacity Gallons:	565
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1990-06-01 00:00:00
Year Installed:	Not reported

LANCAIR CORP (Continued) **1000437555**

Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-2
Capacity Gallons:	550
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1993-01-12 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-3 HEATING OIL
Capacity Gallons:	550
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1989-03-17 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-5
Capacity Gallons:	10000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1989-03-17 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

LANCAIR CORP (Continued) **1000437555**

UST Name:	UNDERGROUND TANK 110618 T008
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-8
Capacity Gallons:	50000
UST Contents:	AVIATION FUEL
Other Content Info:	AVIATION FUEL
Reg Status:	REMOVED
Remove Close Date:	1990-12-10 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T009
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-9
Capacity Gallons:	50000
UST Contents:	AVIATION FUEL
Other Content Info:	AVIATION FUEL
Reg Status:	REMOVED
Remove Close Date:	1990-10-10 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T012
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-12
Capacity Gallons:	50000
UST Contents:	AVIATION FUEL
Other Content Info:	AVIATION FUEL
Reg Status:	REMOVED
Remove Close Date:	1990-10-10 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T013
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-13
Capacity Gallons:	25000

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UST Contents:	AVIATION FUEL
Other Content Info:	AVIATION FUEL
Reg Status:	REMOVED
Remove Close Date:	1990-10-10 00:00:00
Year Installed:	1980-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T014
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-14
Capacity Gallons:	25000
UST Contents:	AVIATION FUEL
Other Content Info:	AVIATION FUEL
Reg Status:	REMOVED
Remove Close Date:	1990-10-10 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T015
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-15
Capacity Gallons:	220000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1991-04-19 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T016
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	1338-16
Capacity Gallons:	220000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1991-04-19 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported

LANCAIR CORP (Continued) **1000437555**

Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 110618 T017
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-17
Capacity Gallons:	220000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1991-04-19 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 110618 T018
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-18
Capacity Gallons:	1
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1989-04-14 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 110618 T019
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-19
Capacity Gallons:	1
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1989-03-17 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 110618 T020

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Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-20
Capacity Gallons:	500
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1989-03-17 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T021
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	UNKNOWN
Additional Id:	C1338-21
Capacity Gallons:	1
UST Contents:	Not reported
Other Content Info:	WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1989-04-14 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T022
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-22
Capacity Gallons:	10000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	Not reported
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T023
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-23
Capacity Gallons:	5000
UST Contents:	DIESEL

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Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	Not reported
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T024
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-28
Capacity Gallons:	500
UST Contents:	MIDGRADE UNLEADED
Other Content Info:	MIDGRADE UNLEADED
Reg Status:	REMOVED
Remove Close Date:	Not reported
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T025
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-25
Capacity Gallons:	500
UST Contents:	MIDGRADE UNLEADED
Other Content Info:	MIDGRADE UNLEADED
Reg Status:	REMOVED
Remove Close Date:	Not reported
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 110618 T026
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	C1338-26
Capacity Gallons:	500
UST Contents:	MIDGRADE UNLEADED
Other Content Info:	MIDGRADE UNLEADED
Reg Status:	REMOVED
Remove Close Date:	Not reported
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION

LANCAIR CORP (Continued) **1000437555**

Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 110618 T027
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	1338-27
Capacity Gallons:	250
UST Contents:	Not reported
Other Content Info:	WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1989-03-17 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 110618 T028
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	1338-28 SLIGHT RESIDUE
Capacity Gallons:	1
UST Contents:	Not reported
Other Content Info:	SLIGHT RESIDUE
Reg Status:	REMOVED
Remove Close Date:	1989-03-17 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 110618 T029
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	1338-29
Capacity Gallons:	550
UST Contents:	Not reported
Other Content Info:	SEE FILE FOR CONTENTS
Reg Status:	REMOVED
Remove Close Date:	1989-03-17 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 110618 T030
Last Update:	2012-11-02 14:17:38

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Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	1338-30
Capacity Gallons:	550
UST Contents:	Not reported
Other Content Info:	WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1989-03-17 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 110618 T031
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	1338-31 SAND
Capacity Gallons:	1500
UST Contents:	Not reported
Other Content Info:	SAND
Reg Status:	REMOVED
Remove Close Date:	1989-04-14 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 110618 T032
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	1338-32 SAND
Capacity Gallons:	1
UST Contents:	Not reported
Other Content Info:	SAND
Reg Status:	REMOVED
Remove Close Date:	1989-04-14 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 110618 T033
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	1338-38
Capacity Gallons:	1
UST Contents:	Not reported
Other Content Info:	SEE FILE FOR CONTENTS

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Reg Status:	REMOVED
Remove Close Date:	1989-04-14 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 110618 T034
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	1338-34 OILY LIQUID
Capacity Gallons:	2200
UST Contents:	Not reported
Other Content Info:	OILY LIQUID
Reg Status:	REMOVED
Remove Close Date:	1990-06-12 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 110618 T035
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	1338-35 OILY LIQUID
Capacity Gallons:	1400
UST Contents:	Not reported
Other Content Info:	OILY LIQUID
Reg Status:	REMOVED
Remove Close Date:	1989-04-14 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 110618 T038
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	UNKNOWN
Additional Id:	AT2060
Capacity Gallons:	800
UST Contents:	Not reported
Other Content Info:	GASOLINE & WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1990-07-12 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90

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UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 110618 T039
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	UNKNOWN
Additional Id:	AT2060
Capacity Gallons:	1600
UST Contents:	Not reported
Other Content Info:	GASOLINE & WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1990-07-12 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 110618 T040
Last Update:	2012-11-02 14:17:38
Permit Number:	110618
Tank Type:	SINGLE WALL
Additional Id:	AT3066
Capacity Gallons:	550
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1993-12-22 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

Permit Number:	208013
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	Not reported
Last HMMD Inspection:	Not reported
Facility Telephone:	619-671-9222
Permit Status:	Permit Renewed
Permit Expiration:	Not reported
Date Last Updated:	08/20/2016
Facility Owner:	Not reported
Facility Address:	1424 CONTINENTAL ST, SAN DIEGO, CA 92154
Facility City:	Not reported
Facility State:	Not reported
Facility Zip:	Not reported
UST Owner:	N
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	N

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Treat Haz Waste: N
Generate Medical Waste: Not reported

INSP:

Record ID: DEH2007-HUPFP-208013
Permit Status: Permit Renewed
Active Permit: Y
Facility Id Number: 37-000-208013
Program Element: Aboveground Petroleum Storage Act
Inspection Type: Routine
Inspection Number: 4085209
Return To Compliance Date: 02/26/2015
Nov: No
Violation Classification: Class II
Underground Storage Tank Id: Not reported
Container/Tank Id: Not reported
Last Update: 2016-08-20T02:32:45.000
Inspection Date: 02/26/2015
Violation Code: 4010019 Failure to predict the extent of a discharge that could result from equipment failure within the SPCC plan; 40 CFR 1 112.7(b); HSC 6.67 25270.4.5(a).

Record ID: DEH2007-HUPFP-208013
Permit Status: Permit Renewed
Active Permit: Y
Facility Id Number: 37-000-208013
Program Element: Aboveground Petroleum Storage Act
Inspection Type: Routine
Inspection Number: 4085209
Return To Compliance Date: 02/26/2015
Nov: No
Violation Classification: Class II
Underground Storage Tank Id: Not reported
Container/Tank Id: Not reported
Last Update: 2016-08-20T02:32:45.000
Inspection Date: 02/26/2015
Violation Code: 4010021 Inadequate inspections/tests and written records not maintained. Failure to comply with all of the following requirements: 40 CFR 1 112.7(e); HSC 6.67 25270.4.5(a).

Record ID: DEH2007-HUPFP-208013
Permit Status: Permit Renewed
Active Permit: Y
Facility Id Number: 37-000-208013
Program Element: Aboveground Petroleum Storage Act
Inspection Type: Routine
Inspection Number: 4085209
Return To Compliance Date: 02/26/2015
Nov: No
Violation Classification: Class II
Underground Storage Tank Id: Not reported
Container/Tank Id: Not reported
Last Update: 2016-08-20T02:32:45.000
Inspection Date: 02/26/2015
Violation Code: 4010016 Failure to adequately describe the physical layout of the facility, or no description of the physical layout of the facility included within the SPCC plan; 40 CFR 1 112.7(a)(3), 112.7(a)(3)(i), 112.7(a)(3)(ii), 112.7(a)(3)(iii), 112.7(a)(3)(iv), 112.7(a)(3)(v),

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112.7(a)(3)(vi); HSC 6.67 25270.4.5(a).

Waste:

Record ID:	DEH2007-HUPFP-208013
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0056147
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2016-08-20T02:32:45.000
Chemical Name:	OXYGEN GAS
Common Name:	OXYGEN GAS
Case Number:	7782-44-7

Record ID:	DEH2007-HUPFP-208013
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0056148
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2016-08-20T02:32:45.000
Chemical Name:	AVIATION FUEL
Common Name:	AVIATION FUEL
Case Number:	50815-00-4

Record ID:	DEH2007-HUPFP-208013
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0056149
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2016-08-20T02:32:45.000
Chemical Name:	Propane
Common Name:	Liquefied Petroleum Gas (lpg)
Case Number:	74-98-6

IAP:

Permit Number:	208013
Update Date:	11/02/2012
Case Number:	50815-00-4
Name:	AVIATION FUEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	208013
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

LANCAIR CORP (Continued) **1000437555**

VAP:

Permit Number:	208013
Update Date:	11/02/2012
Inspection Date:	11/09/2010
Violation Code:	6HV5103
Violation:	SPCC PLAN NOT PREPARED
Violation Citation:	Failed to prepare a Spill Prevention Control and Countermeasures Plan. 25270.4.5(a), 25270.5 & 25270.12(a) [ref. CFR 112.3]
Activity:	ACTIVE

Permit Number:	208013
Update Date:	11/02/2012
Inspection Date:	11/09/2010
Violation Code:	6HV1017
Violation:	HMBP NOT CERTIFIED ANNUALLY
Violation Citation:	Business Plan not certified annually. 25505(d) & (e)(2)
Activity:	ACTIVE

Permit Number:	208344
Business Type:	Not reported
EPA Id Number:	CAD981988587
APN:	Not reported
Last HMMD Inspection:	Not reported
Facility Telephone:	619-424-0456
Permit Status:	Permit Renewed
Permit Expiration:	Not reported
Date Last Updated:	08/19/2016
Facility Owner:	Not reported
Facility Address:	1424 CONTINENTAL ST, SAN DIEGO, CA 92154
Facility City:	Not reported
Facility State:	Not reported
Facility Zip:	Not reported
UST Owner:	N
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	N
Treat Haz Waste:	N
Generate Medical Waste:	Not reported

INSP:

Record ID:	DEH2007-HUPFP-208344
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-208344
Program Element:	Hazardous Materials Release Response Plans
Inspection Type:	Routine
Inspection Number:	4621858
Return To Compliance Date:	10/08/2015
Nov:	Yes
Violation Classification:	CLASS I
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2016-08-19T02:32:33.000
Inspection Date:	10/08/2015
Violation Code:	HMD1001 Unified Program Facility permit not obtained for hazardous

LANCAIR CORP (Continued) **1000437555**

materials. SDCC 68.905

Waste:

Record ID:	DEH2007-HUPFP-208344
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HCHEM-0077041
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2016-08-19T02:32:33.000
Chemical Name:	DIESEL FUEL
Common Name:	DIESEL FUEL
Case Number:	68476-34-6

IAP:

Permit Number:	208344
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL FUEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

VAP:

Permit Number:	208344
Update Date:	11/02/2012
Inspection Date:	09/19/2012
Violation Code:	6HV0407
Violation:	EMPLOYEE TRAINING NOT ADEQUATE
Violation Citation:	Employee training program for small quantity generator of hazardous waste is inadequate. CFR 262.34(d)(5)(iii)
Activity:	ACTIVE

Permit Number:	208013
Business Type:	6HK19
EPA Id Number:	Not reported
APN:	646-050-03-00
Last HMMD Inspection:	11/09/2010
Facility Telephone:	619-671-9222
Permit Status:	OPEN
Permit Expiration:	09/30/2013
Date Last Updated:	11/02/2012
Facility Owner:	LANCAIR CORP
Facility Address:	1424 CONTINENTAL ST
Facility City:	San Diego
Facility State:	CA
Facility Zip:	92154
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

LANCAIR CORP (Continued) **1000437555**

IAP:

Permit Number:	208013
Update Date:	11/02/2012
Case Number:	50815-00-4
Name:	AVIATION FUEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	208013
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

VAP:

Permit Number:	208013
Update Date:	11/02/2012
Inspection Date:	11/09/2010
Violation Code:	6HV5103
Violation:	SPCC PLAN NOT PREPARED
Violation Citation:	Failed to prepare a Spill Prevention Control and Countermeasures Plan. 25270.4.5(a), 25270.5 & 25270.12(a) [ref. CFR 112.3]
Activity:	ACTIVE

Permit Number:	208013
Update Date:	11/02/2012
Inspection Date:	11/09/2010
Violation Code:	6HV1017
Violation:	HMBP NOT CERTIFIED ANNUALLY
Violation Citation:	Business Plan not certified annually. 25505(d) & (e)(2)
Activity:	ACTIVE

SWEEPS UST:

Status:	Active
Comp Number:	10618
Number:	9
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000001
Tank Status:	A
Capacity:	565
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	OTHER
Number Of Tanks:	7

LANCAIR CORP (Continued) **1000437555**

Status:	Active
Comp Number:	10618
Number:	9
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000002
Tank Status:	A
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	OTHER
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	10618
Number:	9
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000004
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	JET FUEL
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	10618
Number:	9
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000006
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	AVIA. GAS
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	10618
Number:	9
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	06-26-92

LANCAIR CORP (Continued) **1000437555**

Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000007
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	AVIA. GAS
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	10618
Number:	9
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000010
Tank Status:	A
Capacity:	10250
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	AVIA. GAS
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	10618
Number:	9
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000011
Tank Status:	A
Capacity:	10250
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	AVIA. GAS
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000003
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported

LANCAIR CORP (Continued) **1000437555**

Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	OTHER
Number Of Tanks:	32

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000005
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000008
Tank Status:	Not reported
Capacity:	50000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	AVIA. GAS
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000009
Tank Status:	Not reported
Capacity:	50000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	AVIA. GAS
Number Of Tanks:	Not reported

Status:	Not reported

LANCAIR CORP (Continued) **1000437555**

Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000012
Tank Status:	Not reported
Capacity:	50000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	AVIA. GAS
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000013
Tank Status:	Not reported
Capacity:	25000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	AVIA. GAS
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000014
Tank Status:	Not reported
Capacity:	25000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	AVIA. GAS
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported

LANCAIR CORP (Continued) **1000437555**

Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000015
Tank Status:	Not reported
Capacity:	220000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	OTHER
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000016
Tank Status:	Not reported
Capacity:	220000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	OTHER
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000017
Tank Status:	Not reported
Capacity:	220000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	OTHER
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000018
Tank Status:	Not reported
Capacity:	1
Active Date:	Not reported
Tank Use:	M.V. FUEL

LANCAIR CORP (Continued) **1000437555**

STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000019
Tank Status:	Not reported
Capacity:	1
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000020
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	OTHER
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000021
Tank Status:	Not reported
Capacity:	1
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618

LANCAIR CORP (Continued) **1000437555**

Number: Not reported
Board Of Equalization: 44-021803
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-010618-000022
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 10618
Number: Not reported
Board Of Equalization: 44-021803
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-010618-000023
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: OTHER
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 10618
Number: Not reported
Board Of Equalization: 44-021803
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-010618-000024
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: OIL
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 10618
Number: Not reported
Board Of Equalization: 44-021803
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported

LANCAIR CORP (Continued) **1000437555**

SWRCB Tank Id:	37-000-010618-000025
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	OIL
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000026
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	OIL
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000027
Tank Status:	Not reported
Capacity:	250
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000028
Tank Status:	Not reported
Capacity:	1
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	WASTE

LANCAIR CORP (Continued) **1000437555**

Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 10618
Number: Not reported
Board Of Equalization: 44-021803
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-010618-000029
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 10618
Number: Not reported
Board Of Equalization: 44-021803
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-010618-000030
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: PETROLEUM
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 10618
Number: Not reported
Board Of Equalization: 44-021803
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-010618-000031
Tank Status: Not reported
Capacity: 1500
Active Date: Not reported
Tank Use: CHEMICAL
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 10618
Number: Not reported

LANCAIR CORP (Continued) **1000437555**

Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000032
Tank Status:	Not reported
Capacity:	1
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000033
Tank Status:	Not reported
Capacity:	1
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000034
Tank Status:	Not reported
Capacity:	2200
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000035

LANCAIR CORP (Continued) **1000437555**

Tank Status:	Not reported
Capacity:	1400
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000036
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000037
Tank Status:	Not reported
Capacity:	1
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	10618
Number:	Not reported
Board Of Equalization:	44-021803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010618-000038
Tank Status:	Not reported
Capacity:	800
Active Date:	Not reported
Tank Use:	OIL
STG:	PRODUCT
Content:	Not reported

LANCAIR CORP (Continued) **1000437555**

Number Of Tanks: Not reported

Status: Not reported
Comp Number: 10618
Number: Not reported
Board Of Equalization: 44-021803
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-010618-000039
Tank Status: Not reported
Capacity: 1600
Active Date: Not reported
Tank Use: OIL
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
File Number: 0002AFA8
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002AFA8.pdf
Region: STATE
Facility ID: 00000028709
Facility Type: Other
Other Type: EMERG. GENERATOR
Contact Name: E.W. ALLEN
Telephone: 6196909369
Owner Name: CITY OF SAN DIEGO MS #42
Owner Address: 2740 CAMINITO CHOLLAS
Owner City,St,Zip: SAN DIEGO, CA 92105
Total Tanks: 0001

Tank Num: 001
Container Num: 01
Year Installed: 1981
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 1
Leak Detection: Pressure Test

Click here for Geo Tracker PDF:

CHMIRS:
OES Incident Number: 4-5677
OES notification: 10/06/2014
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

LANCAIR CORP (Continued) **1000437555**

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:	No
Waterway:	Not reported
Spill Site:	Airport
Cleanup By:	No
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	PETROLEUM
Measure:	Qt.(s)
Other:	Not reported
Date/Time:	940
Year:	2014
Agency:	Brownfield AP
Incident Date:	10/6/2014
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Fuel - Aviation Type
Quantity Released:	2
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:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	Mechanical
Fatals:	No
Comments:	Not reported

LANCAIR CORP (Continued) **1000437555**

Description: AC went off the runway into a safety area where the main gear collapsed causing the release, material flowed onto asphalt and vegetation, RP handled containment and clean up.

HIST CORTESE:

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT3904

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT692

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT712

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1796

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1797

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1812

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1811

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1467

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1992

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1933

Region: CORTESE

LANCAIR CORP (Continued) **1000437555**

Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1942

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2390

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2388

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2389

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2391

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2392

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2393

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2394

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2395

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2396

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2397

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA

LANCAIR CORP (Continued) **1000437555**

Reg Id:	9UT2398
Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT2399
Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT2400

NPDES:

Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	9
Regulatory Measure Id:	218230
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	9 37I003024
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/02/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	San Diego City
Discharge Address:	1424 Continental St
Discharge City:	San Diego
Discharge State:	California
Discharge Zip:	92154
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY 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 NAME:	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 NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported

LANCAIR CORP (Continued) **1000437555**

DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	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 DESRIPTION:	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 NAME:	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
Facility Status:	Not reported
Agency Id:	Not reported
Region:	9
Regulatory Measure Id:	218230
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	9 37I003024
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:	5/9/2008
PROCESSED DATE:	4/2/1992
STATUS CODE NAME:	Active
STATUS DATE:	4/2/1992
PLACE SIZE:	900
PLACE SIZE UNIT:	Acres

LANCAIR CORP (Continued) **1000437555**

FACILITY CONTACT NAME:	Andrew Schwartz
FACILITY CONTACT TITLE:	Airport Manager
FACILITY CONTACT PHONE:	619-424-0456
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	aschwartz@sandiego.gov
OPERATOR NAME:	San Diego City
OPERATOR ADDRESS:	1424 Continental St
OPERATOR CITY:	San Diego
OPERATOR STATE:	California
OPERATOR ZIP:	92154
OPERATOR CONTACT NAME:	Andrew Schwartz
OPERATOR CONTACT TITLE:	Airport Manager
OPERATOR CONTACT PHONE:	619-424-0456
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	aschwartz@sandiego.gov
OPERATOR TYPE:	Other
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	619-424-0456
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 DESRIPTION:	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:	Tijuana River Valley
CERTIFIER NAME:	Andrew Schwartz
CERTIFIER TITLE:	Airport Manager
CERTIFICATION DATE:	22-MAY-15
PRIMARY SIC:	4581-Airports, Flying Fields, and Airport Terminal Services
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

31 SE 1/4-1/2 0.495 mi. 2611 ft.

2380 BRITANNIA BLVD., SAN DIEGO
2380 BRITANNIA
SAN DIEGO, CA 92154

SAN DIEGO CO. SAM
SLIC
San Diego Co. HMMD

S109599094
N/A

Relative: Lower

Actual: 480 ft.

SAN DIEGO CO. SAM:

Case Number:	H39739-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	5/16/2009
Date Began:	Not reported

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	06/16/2009
Global Id:	T10000001097
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H39739-001
Latitude:	32.5549161382447
Longitude:	-116.979718208313
Case Type:	Cleanup Program Site
Case Worker:	EB
Local Agency:	SAN DIEGO COUNTY LOP
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:

HMMD SAN DIEGO:

Permit Number:	212232
Business Type:	6HK70
EPA Id Number:	CAL000355152
APN:	646-100-10-00
Last HMMD Inspection:	08/11/2010
Facility Telephone:	619-210-0620
Permit Status:	OPEN
Permit Expiration:	11/30/2012
Date Last Updated:	11/02/2012
Facility Owner:	INSURANCE AUTO AUCTIONS, INC
Facility Address:	2 WESTBROOK CORP CTR #500
Facility City:	WESTCHESTER
Facility State:	IL
Facility Zip:	60154
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

2380 BRITANNIA BLVD., SAN DIEGO (Continued) **S109599094**

IAP:

Permit Number:	212232
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL FUEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	CHRONIC
Hazardous Categories 2:	Not reported

Permit Number:	212232
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	USED OIL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	212232
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information:	OILY ABSORBENT
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

VAP:

Permit Number:	212232
Update Date:	11/02/2012
Inspection Date:	08/11/2010
Violation Code:	6HV1002
Violation:	HMBP NOT ESTABISHED/IMPLEMENTED.
Violation Citation:	Hazardous materials handler has not established/implemented a business plan. HSC 25503.5(a)
Activity:	ACTIVE

Permit Number:	212232
Update Date:	11/02/2012
Inspection Date:	08/11/2010
Violation Code:	6HV1004
Violation:	HMBP NOT SUBMITTED TO HMD
Violation Citation:	Hazardous Materials Handler has not submitted a completed Business Plan to the HMMD. HSC 25505(a)
Activity:	ACTIVE

Permit Number:	212232
Business Type:	6HK70
EPA Id Number:	CAL000355152
APN:	646-100-10-00
Last HMMD Inspection:	08/11/2010
Facility Telephone:	619-210-0620
Permit Status:	OPEN
Permit Expiration:	11/30/2012

2380 BRITANNIA BLVD., SAN DIEGO (Continued) **S109599094**

Date Last Updated:	11/02/2012
Facility Owner:	INSURANCE AUTO AUCTIONS, INC
Facility Address:	2 WESTBROOK CORP CTR #500
Facility City:	WESTCHESTER
Facility State:	IL
Facility Zip:	60154
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

IAP:

Permit Number:	212232
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL FUEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	CHRONIC
Hazardous Categories 2:	Not reported

Permit Number:	212232
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	USED OIL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	212232
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information:	OILY ABSORBENT
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

VAP:

Permit Number:	212232
Update Date:	11/02/2012
Inspection Date:	08/11/2010
Violation Code:	6HV1002
Violation:	HMBP NOT ESTABISHED/IMPLEMENTED.
Violation Citation:	Hazardous materials handler has not established/implemented a business plan. HSC 25503.5(a)
Activity:	ACTIVE

Permit Number:	212232
Update Date:	11/02/2012
Inspection Date:	08/11/2010
Violation Code:	6HV1004
Violation:	HMBP NOT SUBMITTED TO HMD

2380 BRITANNIA BLVD., SAN DIEGO (Continued) **S109599094**

Violation Citation: Hazardous Materials Handler has not submitted a completed Business Plan to the HMMD. HSC 25505(a)
Activity: ACTIVE

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32 NW 1/2-1 0.519 mi. 2740 ft.

CORNER OF OTAY MESA & HERITAGE ROAD
SAN DIEGO, CA

Notify 65 **S100178041** **N/A**

Relative: Higher

Actual: 508 ft.

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

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33 East 1/2-1 0.574 mi. 3029 ft.

BRITANNIA BOULEVARD PROPERTY
2133, 2155, 2177, 2189, 2195, 2199, 2201 BRITANNIA BOULEVARD
OTAY MESA, CA 92154

ENVIROSTOR **S119002110**
VCP **N/A**
DEED

Relative: Lower

Actual: 501 ft.

ENVIROSTOR:
Facility ID: 37070001
Status: Certified O&M - Land Use Restrictions Only
Status Date: 12/17/2010
Site Code: 401185
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 19
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Willard Garrett
Supervisor: Manny Alonzo
Division Branch: Cleanup Cypress
Assembly: 80
Senate: 40
Special Program: Prospective Purchaser Program
Restricted Use: YES
Site Mgmt Req: ASP, FOUN, DAY, ELD, HOS, EX, NOWN, NUSE, NDEV, FOOD, RES
Funding: Responsible Party
Latitude: 32.5602
Longitude: -116.9786
APN: 646-110-20, 646-110-20
Past Use: DISTRIBUTOR - CHEMICAL
Potential COC: Chloroform
Confirmed COC: 30136-NO
Potential Description: SOIL
Alias Name: BRITANNIA BOULEVARD PROPERTY
Alias Type: Alternate Name
Alias Name: CHIQUITA FRUPAC, INC.

BRITANNIA BOULEVARD PROPERTY (Continued) **S119002110**

Alias Type: Alternate Name
Alias Name: CHRISTENSEN, MILLER, ET AL.
Alias Type: Alternate Name
Alias Name: 646-110-20
Alias Type: APN
Alias Name: 646-110-20
Alias Type: APN
Alias Name: 110033619270
Alias Type: EPA (FRS #)
Alias Name: 401185
Alias Type: Project Code (Site Code)
Alias Name: 37070001
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/02/2015
Comments: 2016 Annual Cost Estimate

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/25/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 09/12/2016
Comments: Annual LUC Inspection Completed on August 16, 2016

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/04/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 11/04/2003
Comments: DEED - RESTR: A deed restriction was recorded with San Diego County Recorder's Office on Nov. 4, 2003. The deed restriction restricted sensitive land use (residential, hospital, day care, school, and any use that includes full-time human habitation).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Prospective Purchaser Agreement
Completed Date: 03/26/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/09/2012

BRITANNIA BOULEVARD PROPERTY (Continued) **S119002110**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/26/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/28/2002
Comments: DTSC reviewed and approved the PEA with a recommendation for a Deed Restriction of the land to be used for commercial/ industrial use only.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/10/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/12/2011
Comments: Closeout memo sent to CRU to closeout site in the CRBS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 09/30/2002
Comments: A Voluntary Cleanup Agreement (VCA) was signed on 9/30/02 to conduct a Preliminary Endangerment Assessment (PEA).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/12/2014
Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/09/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/03/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/25/2009

BRITANNIA BOULEVARD PROPERTY (Continued) **S119002110**

Comments: Annual Land Use Restriction Inspection completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/10/2010
Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 11/23/2009
Comments: Cost Recovery Demand Letter sent certified mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 10/19/2009
Comments: Cost Recovery Letter sent certified mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/14/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/27/2011
Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/04/2007
Comments: A site visit was conducted by DTSC on 8/29/07, the site remains capped and the restrictions still apply. A covenant to restrict the property was executed on 3/26/2004 between DTSC and Otay Crossing, Inc. The following restrictions apply to the site: Not to be used as a residence, including mobile home or factory home built housing, a hospital for humans, a public school for person under 21 years of age, a day care center for children, convalescent homes, or any use that include full-time human habitation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 12/23/2009
Comments: Third Cost Recovery Demand Letter sent by certified mail.

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

BRITANNIA BOULEVARD PROPERTY (Continued) **S119002110**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 37070001
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: ASP, FOUN, DAY, ELD, HOS, EX, NOWN, NUSE, NDEV, FOOD, RES
Acres: 19
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Willard Garrett
Supervisor: Manny Alonzo
Division Branch: Cleanup Cypress
Site Code: 401185
Assembly: 80
Senate: 40
Special Programs Code: Prospective Purchaser Program
Status: Certified O&M - Land Use Restrictions Only
Status Date: 12/17/2010
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 32.5602 / -116.9786
APN: 646-110-20, 646-110-20
Past Use: DISTRIBUTOR - CHEMICAL
Potential COC: 30136
Confirmed COC: 30136-NO
Potential Description: SOIL
Alias Name: BRITANNIA BOULEVARD PROPERTY
Alias Type: Alternate Name
Alias Name: CHIQUITA FRUPAC, INC.
Alias Type: Alternate Name
Alias Name: CHRISTENSEN, MILLER, ET AL.
Alias Type: Alternate Name
Alias Name: 646-110-20
Alias Type: APN
Alias Name: 646-110-20
Alias Type: APN
Alias Name: 110033619270
Alias Type: EPA (FRS #)
Alias Name: 401185
Alias Type: Project Code (Site Code)
Alias Name: 37070001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/02/2015
Comments: 2016 Annual Cost Estimate

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

BRITANNIA BOULEVARD PROPERTY (Continued) **S119002110**

Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/25/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 09/12/2016
Comments: Annual LUC Inspection Completed on August 16, 2016

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/04/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 11/04/2003
Comments: DEED - RESTR: A deed restriction was recorded with San Diego County Recorder's Office on Nov. 4, 2003. The deed restriction restricted sensitive land use (residential, hospital, day care, school, and any use that includes full-time human habitation).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Prospective Purchaser Agreement
Completed Date: 03/26/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/09/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/26/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/28/2002
Comments: DTSC reviewed and approved the PEA with a recommendation for a Deed Restriction of the land to be used for commercial/ industrial use only.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/10/2011
Comments: Not reported

BRITANNIA BOULEVARD PROPERTY (Continued) **S119002110**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/12/2011
Comments: Closeout memo sent to CRU to closeout site in the CRBS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 09/30/2002
Comments: A Voluntary Cleanup Agreement (VCA) was signed on 9/30/02 to conduct a Preliminary Endangerment Assessment (PEA).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/12/2014
Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/09/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/03/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/25/2009
Comments: Annual Land Use Restriction Inspection completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/10/2010
Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 11/23/2009
Comments: Cost Recovery Demand Letter sent certified mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 10/19/2009
Comments: Cost Recovery Letter sent certified mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

BRITANNIA BOULEVARD PROPERTY (Continued) **S119002110**

Completed Document Type: Correspondence
Completed Date: 11/14/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/27/2011
Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/04/2007
Comments: A site visit was conducted by DTSC on 8/29/07, the site remains capped and the restrictions still apply. A covenant to restrict the property was executed on 3/26/2004 between DTSC and Otay Crossing, Inc. The following restrictions apply to the site: Not to be used as a residence, including mobile home or factory home built housing, a hospital for humans, a public school for person under 21 years of age, a day care center for children, convalescent homes, or any use that include full-time human habitation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 12/23/2009
Comments: Third Cost Recovery Demand Letter sent by certified mail.

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

DEED:
Envirostor ID: 37070001
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 09/12/2016

Envirostor ID: 37070001
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 11/04/2003

34 NNW 1/2-1 0.601 mi. 3173 ft. | **BROWN FIELD NAAS** | **ENVIROSTOR** | **S107735966** **N/A**

EAST OF CHULA VISTA, CA

Relative: Higher

Actual: 520 ft.

ENVIROSTOR:

Facility ID:	80000947
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	80
Senate:	40
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	32.57083
Longitude:	-116.9944
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799FA24900
Alias Type:	Federal Facility ID
Alias Name:	J09CA7278
Alias Type:	INPR
Alias Name:	80000947
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

35	**HONEYWELL INC**	**RCRA-LQG**	**1000595157**
East	**2055 DUBLIN DR**	**ENVIROSTOR**	**92173HNYWL2055D**
1/2-1	**SAN DIEGO, CA 92173**	**AST**	
0.768 mi.		**San Diego Co. HMMD**	
4057 ft.		**TRIS**	
		ICIS	
Relative:		**FINDS**	
Lower		**ECHO**	
		NPDES	
Actual:			
498 ft.			

RCRA-LQG:

Date form received by agency:	02/04/2016
Facility name:	HONEYWELL
Facility address:	2055 DUBLIN DRIVE SAN DIEGO, CA 92154
EPA ID:	CAD983590506
Mailing address:	DUBLIN DRIVE SAN DIEGO, CA 92154
Contact:	MICHAEL A MILLER
Contact address:	DUBLIN DRIVE SAN DIEGO, CA 92154
Contact country:	US
Contact telephone:	(619) 671-5612
Contact email:	MIKE.A.MILLER@HONEYWELL.COM
EPA Region:	09
Land type:	Private
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:	EDL V LTD
Owner/operator address:	W. BROADWAY SAN DIEGO, CA 92101
Owner/operator country:	US
Owner/operator telephone:	(619) 696-7355
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/10/1990
Owner/Op end date:	Not reported
Owner/operator name:	HONEYWELL
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	07/27/1990

HONEYWELL INC (Continued) **1000595157**

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: Yes
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: 135
. Waste name: 135

. Waste code: 181
. Waste name: 181

. Waste code: 331
. Waste name: 331

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

Historical Generators:
Date form received by agency: 03/01/2014
Site name: HONEYWELL, INC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 06/05/2008
Site name: HONEYWELL, INC.
Classification: Large Quantity Generator

. Waste code: D001

HONEYWELL INC (Continued) **1000595157**

. Waste name: IGNITABLE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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.

Date form received by agency: 07/09/1991
Site name: HONEYWELL INC SAN DIEGO
Classification: Small Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/04/2006
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/04/2006
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: 01/27/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/04/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: Local

ENVIROSTOR:
Facility ID: 71003124
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported

HONEYWELL INC (Continued) **1000595157**

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 Cypress
Assembly: 80
Senate: 40
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 32.56157
Longitude: -116.9739
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD983590506
Alias Type: EPA Identification Number
Alias Name: 110000479063
Alias Type: EPA (FRS #)
Alias Name: 71003124
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

AST:
Certified Unified Program Agencies: Not reported
Owner: Honeywell International Inc.
Total Gallons: Not reported
CERSID: 10395169
Facility ID: 37-000-123519
Business Name: HONEYWELL INC
Phone: 619-251-2789
Fax: 619-671-5633
Mailing Address: 2055 DUBLIN DR
Mailing Address City: SAN DIEGO

HONEYWELL INC (Continued) **1000595157**

Mailing Address State:	CA
Mailing Address Zip Code:	92154
Operator Name:	HONEYWELL INC
Operator Phone:	619-671-5661
Owner Phone:	973-455-2000
Owner Mail Address:	115 Tabor Road
Owner State:	NJ
Owner Zip Code:	7950
Owner Country:	United States
Property Owner Name:	EDL V LTD
Property Owner Phone:	619-696-7355
Property Owner Mailing Address:	402 W BROADWAY 1320
Property Owner City:	SAN DIEGO
Property Owner Stat :	CA
Property Owner Zip Code:	92101
Property Owner Country:	United States
EPAID:	CAD983590506

Certified Unified Program Agencies:	San Diego
Owner:	HONEYWELL INC
Total Gallons:	14945
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

HMMD SAN DIEGO:

Permit Number:	123519
Business Type:	6HK35
EPA Id Number:	CAD986590506
APN:	646-220-29-00
Last HMMD Inspection:	10/27/2010
Facility Telephone:	619-671-5715
Permit Status:	OPEN
Permit Expiration:	11/30/2012
Date Last Updated:	11/02/2012
Facility Owner:	HONEYWELL INC

HONEYWELL INC (Continued) **1000595157**

Facility Address: 2055 DUBLIN DR
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92154
UST Owner: Not reported
Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Y
Generate Medical Waste: Not reported

IAP:

Permit Number: 123519
Update Date: 11/02/2012
Case Number: 64741-65-7
Name: ARROW 20390 VANISHING LUBRICANT
Other Information: PETROLEUM DISTILLATE, ALIPHATIC
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: ARROW 664N GEAR OIL
Other Information: HIGHLY REFINED PETROLEUM OIL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: ARROW 994 DRAWING OIL
Other Information: HIGHLY REFINED PETROLEUM OIL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: CHEVRON DELO SYNTHETIC GEAR LUBRICANT
Other Information: GEAR LUBRICANT
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: HF-28 HYDRAULIC FLUID
Other Information: DIECAST: 1,2,4,5,6 CONTAIN 224-GALLONS OF HYDRAULIC FLUID
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

HONEYWELL INC (Continued) **1000595157**

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	METALSTAR QC-116
Other Information:	PETROLEUM OIL
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MICROSOL 585 COOLANT
Other Information:	KINGSBURY 1 & 2 HOLDS 250 GAL OF COOLANT EACH
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MICROSOL 585 COOLANT
Other Information:	LINDENMAYER; HOLDS 496 GALLONS OF COOLANT FLUID
Material Waste:	Material
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MOBILE HYDRAULIC OIL AW32
Other Information:	HYDRAULIC OIL
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MOBILE HYDRAULIC OIL AW68
Other Information:	HYDRAULIC OIL
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MOBILE HYDRAULIC OIL AW68/CROWN OIL 068
Other Information:	ACME SCREW MACHINE PB6,7,8,10 EACH HOLDS AT LEAST 64 GALLONS
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported

HONEYWELL INC (Continued) **1000595157**

Name: MOBILE HYDRAULIC OIL AW68/CROWN OIL 068
Other Information: ACME SCREW MACHINE VR-98, 99,100,101,102,112,113 (64 GAL EA)
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: 7727-37-9
Name: NITROGEN, COMPRESSED GAS; CRYOGENIC
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: ACUTE

Permit Number: 123519
Update Date: 11/02/2012
Case Number: 7782-44-7
Name: OXYGEN
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: PETROLEUM OIL
Other Information: ARROW 603N HYDRAULIC OIL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: POWER-LUBE 243
Other Information: LUBRICANT BLEND
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: 74-98-6
Name: PROPANE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: RUSTLICK EDM 500 HIGH PERFORMANCE DIELECTRIC OIL
Other Information: SYNTHETIC ISOPARFFINIC HYDROCARBON
Material Waste: Material

HONEYWELL INC (Continued) **1000595157**

Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: SHELL AW HYDRAULIC OIL 46
Other Information: HYDRAULIC OIL
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: SHELL AW HYDRAULIC OIL 46/CROWN AW46 HYDRAULIC OIL
Other Information: TRIM PRESS 1,3,5,7,8 EACH MACHINE HOLDS AT LEAST 81 GALLONS
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: SULFURIC ACID
Other Information: BATTERY ELECTROLYTE
Material Waste: Material
Hazardous Categories 1: REACTIVE
Hazardous Categories 2: ACUTE

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: TEXACO ARIES 320 LUBE OIL
Other Information: HIGHLY REFINED MINERAL OIL (C15-C50)
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: TEXACO REGAL R&O 32 THROUGH 220
Other Information: HIGHLY REFINED MINERAL OIL (C15-C50)
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: TEXACO WAY LUBRICANT 68/CHEVRON MEROPA ISO 68
Other Information: HIGHLY REFINED MIENRAL OIL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

HONEYWELL INC (Continued) **1000595157**

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	URSA SUPER PLUS SAE 10W-30
Other Information:	MOTOR OIL SAE 10W-30
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	VALCOOL VNT 650 (VP-650)
Other Information:	SOLUBLE OIL
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 135 UNSPECIFIED AQUEOUS SOL'N
Other Information:	Not reported
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 172 METAL DUST & MACHINING WASTE
Other Information:	SANDBLAST MEDIA
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER)
Other Information:	FILTER CAKE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 213 HYDROCARBON SOLVENTS
Other Information:	PARTS CLEANERS (D150) (6 UNITS)
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported

HONEYWELL INC (Continued) **1000595157**

Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: USED OIL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information: ABSORBANT/RAGS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 461 PAINT SLUDGE
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 491 UNSPECIFIED SLUDGE WASTE
Other Information: TRENCH & MACHINE SLUDGE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 901 INFECTIOUS WASTE, GENERAL
Other Information: LQHE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 902 INFECTIOUS WASTE, SHARPS
Other Information: LQHE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

VAP:
Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/16/2004
Violation Code: 6HV0203
Violation: DAMAGED CONTAINER NOT REPACKAGED

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Violation Citation: Hazardous materials in damaged containers have not been repackaged within 96 hours & are now declared hazardous waste. HSC 25124(E)
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 01/04/2006
Violation Code: 6HV4207
Violation: SHARPS IMPROPERLY CONTAINED
Violation Citation: Generator did not store sharps waste in approved and properly marked sharps container. 118285(a)(d)
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 01/04/2006
Violation Code: 6HV4304
Violation: LQHE NOT OBTAINED FOR MEDWASTE
Violation Citation: Did not apply for and receive a limited-quantity hauling exemption for self-hauled medical waste (<20 pounds of waste per week). 118025, 118030(a)(1)
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 01/04/2006
Violation Code: 6HV0143
Violation: TP NOTIFICATION INCOMPLETE/INCORRECT
Violation Citation: TIERED PERMITTING: TP Notification has incomplete or incorrect information. 25201
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 01/04/2006
Violation Code: 6HV1601
Violation: HAZWASTE TANKS W/O P.E. ASSESSMENT
Violation Citation: Failed to obtain a P.E. assessment for hazardous waste tank system. 66265.191(a) or 66265.192(a)
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 01/04/2006
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 10/27/2010
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or

HONEYWELL INC (Continued) **1000595157**

complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 10/27/2010
Violation Code: 6HV0224
Violation: MISMANAGED EMPTY CONTAINERS >5GALS.
Violation Citation: Failed to mark date on empty container larger than 5 gallons and/or manage it within one year. 66261.7(e) & (f).
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/09/2008
Violation Code: 6HV1701
Violation: UNAUTH. TREATMENT OF HAZARDOUS WASTE
Violation Citation: Unauthorized treatment of hazardous waste.{All tiers 25201(a) Additionally, CESW/SQT: 25201.5; CEL: 25201.14; CA: 25200.3; PBR: 67450.1}
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/09/2008
Violation Code: 6HV1702
Violation: TREATMENT NOTIFICATION NO DONE/INADEQ.
Violation Citation: Onsite Hazardous Waste Treatment Notification pages (facility, unit & treatment process pages) not complete, accurate and/or on file with CUPA. {CE: 25201.5(d)(7) & 25201.14(c)(2); CA: 25200.3(e)(1); PBR: 67450.2(b) & 67450.3(c)}
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/09/2008
Violation Code: 6HV1715
Violation: NO UNIT CLOSURE NOTIFICATION TO CUPA
Violation Citation: Notification was not made to CUPA after treatment unit closure requirements were met.{CE: 25201.5(d)(8)(B); CEL: 25201.14(c)(1); CA: 25200.3(g)(2); PBR: 67450.3(c)(11)}Note: for PBR, notification must be made 15 days BEFORE completion of closure
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/09/2008
Violation Code: 6HV1716
Violation: INADEQ/NO WRITTEN UNIT OPERATING INSTR.
Violation Citation: Inadequate or no written operating instructions for treatment unit (must include for every unit: how to operate unit, how to perform waste treatment, and how to manage residuals AND records of the dates, volumes, and types of wastes treated). Records must be kept 3 years for CE; 5 years for CA; or until closure for PBR unit. {CE: 25201.5(d)(3)&(5); CEL: 25201.14(c)(1); CA: 25200.3(c)(6) & (7); PBR: 67450.3(c)(9)(D) and 66265.73(a) & (b)(1)}

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Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/09/2008
Violation Code: 6HV1756
Violation: WRITTEN ANALYSIS PLAN INADEQUATE/ABSENT
Violation Citation: Written waste analysis plan does not exist or is inadequate in specifying parameters of analysis, testing methods, frequency of analysis and sampling methods used to obtain representative samples. {66265.13(b) & 67450.3(c)(9)(A)}
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/03/2008
Violation Code: 6HV0304
Violation: WASTE DETERMINATION NOT MADE
Violation Citation: Generator of a waste has not determined if that waste is a hazardous waste as defined by law. CCR 66262.11 & 66260.200(c)
Activity: ACTIVE

Permit Number: 209350
Business Type: 6HK18
EPA Id Number: Not reported
APN: 646-220-29-00
Last HMMD Inspection: 05/21/2008
Facility Telephone: 619-671-9022
Permit Status: INAC
Permit Expiration: 09/30/2010
Date Last Updated: 11/02/2012
Facility Owner: ITW
Facility Address: 3600 W LAKE AV
Facility City: GLENVIEW
Facility State: IL
Facility Zip: 60026
UST Owner: Not reported
Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Not reported
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Permit Number: 123519
Business Type: 6HK35
EPA Id Number: CAD986590506
APN: 646-220-29-00
Last HMMD Inspection: 10/27/2010
Facility Telephone: 619-671-5715
Permit Status: OPEN
Permit Expiration: 11/30/2012
Date Last Updated: 11/02/2012
Facility Owner: HONEYWELL INC
Facility Address: 2055 DUBLIN DR
Facility City: SAN DIEGO

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Facility State: CA
Facility Zip: 92154
UST Owner: Not reported
Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported
Subject To APSA: Y
Generate Haz Waste: Y
Treat Haz Waste: Y
Generate Medical Waste: Y

IAP:

Permit Number: 123519
Update Date: 11/02/2012
Case Number: 64741-65-7
Name: ARROW 20390 VANISHING LUBRICANT
Other Information: PETROLEUM DISTILLATE, ALIPHATIC
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: ARROW 664N GEAR OIL
Other Information: HIGHLY REFINED PETROLEUM OIL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: ARROW 994 DRAWING OIL
Other Information: HIGHLY REFINED PETROLEUM OIL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: CHEVRON DELO SYNTHETIC GEAR LUBRICANT
Other Information: GEAR LUBRICANT
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: HF-28 HYDRAULIC FLUID
Other Information: DIECAST: 1,2,4,5,6 CONTAIN 224-GALLONS OF HYDRAULIC FLUID
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012

HONEYWELL INC (Continued) **1000595157**

Case Number:	Not reported
Name:	METALSTAR QC-116
Other Information:	PETROLEUM OIL
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MICROSOL 585 COOLANT
Other Information:	KINGSBURY 1 & 2 HOLDS 250 GAL OF COOLANT EACH
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MICROSOL 585 COOLANT
Other Information:	LINDENMAYER; HOLDS 496 GALLONS OF COOLANT FLUID
Material Waste:	Material
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MOBILE HYDRAULIC OIL AW32
Other Information:	HYDRAULIC OIL
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MOBILE HYDRAULIC OIL AW68
Other Information:	HYDRAULIC OIL
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MOBILE HYDRAULIC OIL AW68/CROWN OIL 068
Other Information:	ACME SCREW MACHINE PB6,7,8,10 EACH HOLDS AT LEAST 64 GALLONS
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MOBILE HYDRAULIC OIL AW68/CROWN OIL 068
Other Information:	ACME SCREW MACHINE VR-98, 99,100,101,102,112,113 (64 GAL EA)

HONEYWELL INC (Continued) **1000595157**

Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: 7727-37-9
Name: NITROGEN, COMPRESSED GAS; CRYOGENIC
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: ACUTE

Permit Number: 123519
Update Date: 11/02/2012
Case Number: 7782-44-7
Name: OXYGEN
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: PETROLEUM OIL
Other Information: ARROW 603N HYDRAULIC OIL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: POWER-LUBE 243
Other Information: LUBRICANT BLEND
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: 74-98-6
Name: PROPANE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: RUSTLICK EDM 500 HIGH PERFORMANCE DIELECTRIC OIL
Other Information: SYNTHETIC ISOPARFFINIC HYDROCARBON
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

HONEYWELL INC (Continued) **1000595157**

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: SHELL AW HYDRAULIC OIL 46
Other Information: HYDRAULIC OIL
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: SHELL AW HYDRAULIC OIL 46/CROWN AW46 HYDRAULIC OIL
Other Information: TRIM PRESS 1,3,5,7,8 EACH MACHINE HOLDS AT LEAST 81 GALLONS
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: SULFURIC ACID
Other Information: BATTERY ELECTROLYTE
Material Waste: Material
Hazardous Categories 1: REACTIVE
Hazardous Categories 2: ACUTE

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: TEXACO ARIES 320 LUBE OIL
Other Information: HIGHLY REFINED MINERAL OIL (C15-C50)
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: TEXACO REGAL R&O 32 THROUGH 220
Other Information: HIGHLY REFINED MINERAL OIL (C15-C50)
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: TEXACO WAY LUBRICANT 68/CHEVRON MEROPA ISO 68
Other Information: HIGHLY REFINED MIENRAL OIL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported

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Name: URSA SUPER PLUS SAE 10W-30
Other Information: MOTOR OIL SAE 10W-30
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: VALCOOL VNT 650 (VP-650)
Other Information: SOLUBLE OIL
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 135 UNSPECIFIED AQUEOUS SOL'N
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 172 METAL DUST & MACHINING WASTE
Other Information: SANDBLAST MEDIA
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 181 INORGANIC SOLID WASTE (OTHER)
Other Information: FILTER CAKE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 213 HYDROCARBON SOLVENTS
Other Information: PARTS CLEANERS (D150) (6 UNITS)
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: USED OIL
Material Waste: Waste

HONEYWELL INC (Continued) **1000595157**

Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information: ABSORBANT/RAGS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 461 PAINT SLUDGE
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 491 UNSPECIFIED SLUDGE WASTE
Other Information: TRENCH & MACHINE SLUDGE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 901 INFECTIOUS WASTE, GENERAL
Other Information: LQHE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 902 INFECTIOUS WASTE, SHARPS
Other Information: LQHE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

VAP:
Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/16/2004
Violation Code: 6HV0203
Violation: DAMAGED CONTAINER NOT REPACKAGED
Violation Citation: Hazardous materials in damaged containers have not been repackaged within 96 hours & are now declared hazardous waste. HSC 25124(E)
Activity: ACTIVE

HONEYWELL INC (Continued) **1000595157**

Permit Number:	123519
Update Date:	11/02/2012
Inspection Date:	01/04/2006
Violation Code:	6HV4207
Violation:	SHARPS IMPROPERLY CONTAINED
Violation Citation:	Generator did not store sharps waste in approved and properly marked sharps container. 118285(a)(d)
Activity:	ACTIVE

Permit Number:	123519
Update Date:	11/02/2012
Inspection Date:	01/04/2006
Violation Code:	6HV4304
Violation:	LQHE NOT OBTAINED FOR MEDWASTE
Violation Citation:	Did not apply for and receive a limited-quantity hauling exemption for self-hauled medical waste (<20 pounds of waste per week). 118025, 118030(a)(1)
Activity:	ACTIVE

Permit Number:	123519
Update Date:	11/02/2012
Inspection Date:	01/04/2006
Violation Code:	6HV0143
Violation:	TP NOTIFICATION INCOMPLETE/INCORRECT
Violation Citation:	TIERED PERMITTING: TP Notification has incomplete or incorrect information. 25201
Activity:	ACTIVE

Permit Number:	123519
Update Date:	11/02/2012
Inspection Date:	01/04/2006
Violation Code:	6HV1601
Violation:	HAZWASTE TANKS W/O P.E. ASSESSMENT
Violation Citation:	Failed to obtain a P.E. assessment for hazardous waste tank system. 66265.191(a) or 66265.192(a)
Activity:	ACTIVE

Permit Number:	123519
Update Date:	11/02/2012
Inspection Date:	01/04/2006
Violation Code:	6HV1009
Violation:	HMBP: INADEQUATE SITE MAP
Violation Citation:	Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity:	ACTIVE

Permit Number:	123519
Update Date:	11/02/2012
Inspection Date:	10/27/2010
Violation Code:	6HV1009
Violation:	HMBP: INADEQUATE SITE MAP
Violation Citation:	Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity:	ACTIVE

HONEYWELL INC (Continued) **1000595157**

Permit Number:	123519
Update Date:	11/02/2012
Inspection Date:	10/27/2010
Violation Code:	6HV0224
Violation:	MISMANAGED EMPTY CONTAINERS >5GALS.
Violation Citation:	Failed to mark date on empty container larger than 5 gallons and/or manage it within one year. 66261.7(e) & (f).
Activity:	ACTIVE

Permit Number:	123519
Update Date:	11/02/2012
Inspection Date:	09/09/2008
Violation Code:	6HV1701
Violation:	UNAUTH. TREATMENT OF HAZARDOUS WASTE
Violation Citation:	Unauthorized treatment of hazardous waste.{All tiers 25201(a) Additionally, CESW/SQT: 25201.5; CEL: 25201.14; CA: 25200.3; PBR: 67450.1}
Activity:	ACTIVE

Permit Number:	123519
Update Date:	11/02/2012
Inspection Date:	09/09/2008
Violation Code:	6HV1702
Violation:	TREATMENT NOTIFICATION NO DONE/INADEQ.
Violation Citation:	Onsite Hazardous Waste Treatment Notification pages (facility, unit & treatment process pages) not complete, accurate and/or on file with CUPA. {CE: 25201.5(d)(7) & 25201.14(c)(2); CA: 25200.3(e)(1); PBR: 67450.2(b) & 67450.3(c)}
Activity:	ACTIVE

Permit Number:	123519
Update Date:	11/02/2012
Inspection Date:	09/09/2008
Violation Code:	6HV1715
Violation:	NO UNIT CLOSURE NOTIFICATION TO CUPA
Violation Citation:	Notification was not made to CUPA after treatment unit closure requirements were met.{CE: 25201.5(d)(8)(B); CEL: 25201.14(c)(1); CA: 25200.3(g)(2); PBR: 67450.3(c)(11)}Note: for PBR, notification must be made 15 days BEFORE completion of closure
Activity:	ACTIVE

Permit Number:	123519
Update Date:	11/02/2012
Inspection Date:	09/09/2008
Violation Code:	6HV1716
Violation:	INADEQ/NO WRITTEN UNIT OPERATING INSTR.
Violation Citation:	Inadequate or no written operating instructions for treatment unit (must include for every unit: how to operate unit, how to perform waste treatment, and how to manage residuals AND records of the dates, volumes, and types of wastes treated). Records must be kept 3 years for CE; 5 years for CA; or until closure for PBR unit. {CE: 25201.5(d)(3)&(5); CEL: 25201.14(c)(1); CA: 25200.3(c)(6) & (7); PBR: 67450.3(c)(9)(D) and 66265.73(a) & (b)(1)}
Activity:	ACTIVE

Permit Number:	123519
Update Date:	11/02/2012

HONEYWELL INC (Continued) **1000595157**

Inspection Date: 09/09/2008
Violation Code: 6HV1756
Violation: WRITTEN ANALYSIS PLAN INADEQUATE/ABSENT
Violation Citation: Written waste analysis plan does not exist or is inadequate in specifying parameters of analysis, testing methods, frequency of analysis and sampling methods used to obtain representative samples. {66265.13(b) & 67450.3(c)(9)(A)}
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/03/2008
Violation Code: 6HV0304
Violation: WASTE DETERMINATION NOT MADE
Violation Citation: Generator of a waste has not determined if that waste is a hazardous waste as defined by law. CCR 66262.11 & 66260.200(c)
Activity: ACTIVE

Permit Number: 123519
Business Type: 6HK35
EPA Id Number: CAD986590506
APN: 646-220-29-00
Last HMMD Inspection: 10/27/2010
Facility Telephone: 619-671-5715
Permit Status: OPEN
Permit Expiration: 11/30/2012
Date Last Updated: 11/02/2012
Facility Owner: HONEYWELL INC
Facility Address: 2055 DUBLIN DR
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92154
UST Owner: Not reported
Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported
Subject To APSA: Y
Generate Haz Waste: Y
Treat Haz Waste: Y
Generate Medical Waste: Not reported

IAP:
Permit Number: 123519
Update Date: 11/02/2012
Case Number: 64741-65-7
Name: ARROW 20390 VANISHING LUBRICANT
Other Information: PETROLEUM DISTILLATE, ALIPHATIC
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: ARROW 664N GEAR OIL
Other Information: HIGHLY REFINED PETROLEUM OIL
Material Waste: Material
Hazardous Categories 1: FIRE

HONEYWELL INC (Continued) **1000595157**

Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: ARROW 994 DRAWING OIL
Other Information: HIGHLY REFINED PETROLEUM OIL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: CHEVRON DELO SYNTHETIC GEAR LUBRICANT
Other Information: GEAR LUBRICANT
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: HF-28 HYDRAULIC FLUID
Other Information: DIECAST: 1,2,4,5,6 CONTAIN 224-GALLONS OF HYDRAULIC FLUID
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: METALSTAR QC-116
Other Information: PETROLEUM OIL
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: MICROSOL 585 COOLANT
Other Information: KINGSBURY 1 & 2 HOLDS 250 GAL OF COOLANT EACH
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: MICROSOL 585 COOLANT
Other Information: LINDENMAYER; HOLDS 496 GALLONS OF COOLANT FLUID
Material Waste: Material
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519

HONEYWELL INC (Continued) **1000595157**

Update Date:	11/02/2012
Case Number:	Not reported
Name:	MOBILE HYDRAULIC OIL AW32
Other Information:	HYDRAULIC OIL
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MOBILE HYDRAULIC OIL AW68
Other Information:	HYDRAULIC OIL
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MOBILE HYDRAULIC OIL AW68/CROWN OIL 068
Other Information:	ACME SCREW MACHINE PB6,7,8,10 EACH HOLDS AT LEAST 64 GALLONS
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MOBILE HYDRAULIC OIL AW68/CROWN OIL 068
Other Information:	ACME SCREW MACHINE VR-98, 99,100,101,102,112,113 (64 GAL EA)
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	7727-37-9
Name:	NITROGEN, COMPRESSED GAS; CRYOGENIC
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	ACUTE

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	PETROLEUM OIL

HONEYWELL INC (Continued) **1000595157**

Other Information: ARROW 603N HYDRAULIC OIL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: POWER-LUBE 243
Other Information: LUBRICANT BLEND
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: 74-98-6
Name: PROPANE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: RUSTLICK EDM 500 HIGH PERFORMANCE DIELECTRIC OIL
Other Information: SYNTHETIC ISOPARFFINIC HYDROCARBON
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: SHELL AW HYDRAULIC OIL 46
Other Information: HYDRAULIC OIL
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: SHELL AW HYDRAULIC OIL 46/CROWN AW46 HYDRAULIC OIL
Other Information: TRIM PRESS 1,3,5,7,8 EACH MACHINE HOLDS AT LEAST 81 GALLONS
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: SULFURIC ACID
Other Information: BATTERY ELECTROLYTE
Material Waste: Material
Hazardous Categories 1: REACTIVE

HONEYWELL INC (Continued) **1000595157**

Hazardous Categories 2: ACUTE

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: TEXACO ARIES 320 LUBE OIL
Other Information: HIGHLY REFINED MINERAL OIL (C15-C50)
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: TEXACO REGAL R&O 32 THROUGH 220
Other Information: HIGHLY REFINED MINERAL OIL (C15-C50)
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: TEXACO WAY LUBRICANT 68/CHEVRON MEROPA ISO 68
Other Information: HIGHLY REFINED MIENRAL OIL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: URSA SUPER PLUS SAE 10W-30
Other Information: MOTOR OIL SAE 10W-30
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: VALCOOL VNT 650 (VP-650)
Other Information: SOLUBLE OIL
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 135 UNSPECIFIED AQUEOUS SOL'N
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519

HONEYWELL INC (Continued) **1000595157**

Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 172 METAL DUST & MACHINING WASTE
Other Information:	SANDBLAST MEDIA
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER)
Other Information:	FILTER CAKE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 213 HYDROCARBON SOLVENTS
Other Information:	PARTS CLEANERS (D150) (6 UNITS)
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	USED OIL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information:	ABSORBANT/RAGS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 461 PAINT SLUDGE
Other Information:	Not reported
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	123519
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 491 UNSPECIFIED SLUDGE WASTE

HONEYWELL INC (Continued) **1000595157**

Other Information: TRENCH & MACHINE SLUDGE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 901 INFECTIOUS WASTE, GENERAL
Other Information: LQHE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 123519
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 902 INFECTIOUS WASTE, SHARPS
Other Information: LQHE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

VAP:
Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/16/2004
Violation Code: 6HV0203
Violation: DAMAGED CONTAINER NOT REPACKAGED
Violation Citation: Hazardous materials in damaged containers have not been repackaged within 96 hours & are now declared hazardous waste. HSC 25124(E)
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 01/04/2006
Violation Code: 6HV4207
Violation: SHARPS IMPROPERLY CONTAINED
Violation Citation: Generator did not store sharps waste in approved and properly marked sharps container. 118285(a)(d)
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 01/04/2006
Violation Code: 6HV4304
Violation: LQHE NOT OBTAINED FOR MEDWASTE
Violation Citation: Did not apply for and receive a limited-quantity hauling exemption for self-hauled medical waste (<20 pounds of waste per week). 118025, 118030(a)(1)
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 01/04/2006
Violation Code: 6HV0143
Violation: TP NOTIFICATION INCOMPLETE/INCORRECT

HONEYWELL INC (Continued) **1000595157**

Violation Citation: TIERED PERMITTING: TP Notification has incomplete or incorrect information. 25201
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 01/04/2006
Violation Code: 6HV1601
Violation: HAZWASTE TANKS W/O P.E. ASSESSMENT
Violation Citation: Failed to obtain a P.E. assessment for hazardous waste tank system. 66265.191(a) or 66265.192(a)
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 01/04/2006
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 10/27/2010
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 10/27/2010
Violation Code: 6HV0224
Violation: MISMANAGED EMPTY CONTAINERS >5GALS.
Violation Citation: Failed to mark date on empty container larger than 5 gallons and/or manage it within one year. 66261.7(e) & (f).
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/09/2008
Violation Code: 6HV1701
Violation: UNAUTH. TREATMENT OF HAZARDOUS WASTE
Violation Citation: Unauthorized treatment of hazardous waste.{All tiers 25201(a) Additionally, CESW/SQT: 25201.5; CEL: 25201.14; CA: 25200.3; PBR: 67450.1}
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/09/2008
Violation Code: 6HV1702
Violation: TREATMENT NOTIFICATION NO DONE/INADEQ.

HONEYWELL INC (Continued) **1000595157**

Violation Citation: Onsite Hazardous Waste Treatment Notification pages (facility, unit & treatment process pages) not complete, accurate and/or on file with CUPA. {CE: 25201.5(d)(7) & 25201.14(c)(2); CA: 25200.3(e)(1); PBR: 67450.2(b) & 67450.3(c)}
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/09/2008
Violation Code: 6HV1715
Violation: NO UNIT CLOSURE NOTIFICATION TO CUPA
Violation Citation: Notification was not made to CUPA after treatment unit closure requirements were met.{CE: 25201.5(d)(8)(B); CEL: 25201.14(c)(1); CA: 25200.3(g)(2); PBR: 67450.3(c)(11)}Note: for PBR, notification must be made 15 days BEFORE completion of closure
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/09/2008
Violation Code: 6HV1716
Violation: INADEQ/NO WRITTEN UNIT OPERATING INSTR.
Violation Citation: Inadequate or no written operating instructions for treatment unit (must include for every unit: how to operate unit, how to perform waste treatment, and how to manage residuals AND records of the dates, volumes, and types of wastes treated). Records must be kept 3 years for CE; 5 years for CA; or until closure for PBR unit. {CE: 25201.5(d)(3)&(5); CEL: 25201.14(c)(1); CA: 25200.3(c)(6) & (7); PBR: 67450.3(c)(9)(D) and 66265.73(a) & (b)(1)}
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/09/2008
Violation Code: 6HV1756
Violation: WRITTEN ANALYSIS PLAN INADEQUATE/ABSENT
Violation Citation: Written waste analysis plan does not exist or is inadequate in specifying parameters of analysis, testing methods, frequency of analysis and sampling methods used to obtain representative samples. {66265.13(b) & 67450.3(c)(9)(A)}
Activity: ACTIVE

Permit Number: 123519
Update Date: 11/02/2012
Inspection Date: 09/03/2008
Violation Code: 6HV0304
Violation: WASTE DETERMINATION NOT MADE
Violation Citation: Generator of a waste has not determined if that waste is a hazardous waste as defined by law. CCR 66262.11 & 66260.200(c)
Activity: ACTIVE

TRIS:

Click this hyperlink while viewing on your computer to access
3 additional US_TRIS: record(s) in the EDR Site Report.

HONEYWELL INC (Continued) **1000595157**

ICIS:

Enforcement Action ID:	HQ-2011-8004
FRS ID:	110000479063
Action Name:	Honeywell International Inc.
Facility Name:	HONEYWELL INC
Facility Address:	2055 DUBLIN DR. SAN DIEGO, CA 92154-8202
Enforcement Action Type:	EPCRA 325 Action For Penalty
Facility County:	SAN DIEGO
Program System Acronym:	TRIS
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	325
Facility SIC Code:	Not reported
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	32.56081
Longitude in Decimal Degrees:	-116.97543
Permit Type Desc:	Not reported
Program System Acronym:	92173HNYWL2055D
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

FINDS:

Registry ID: 110000479063

Environmental Interest/Information System

AIR EMISSIONS CLASSIFICATION UNKNOWN

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.

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.

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 WASTE BIENNIAL REPORTER

STATE MASTER

Click this hyperlink while viewing on your computer to access 1 additional FINDS: record(s) in the EDR Site Report.

ECHO:

Envid: 1000595157

HONEYWELL INC (Continued) **1000595157**

Registry ID:	110000479063
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110000479063

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	9
Regulatory Measure Id:	218265
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	9 37I004021
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:	5/9/2008
PROCESSED DATE:	4/3/1992
STATUS CODE NAME:	Active
STATUS DATE:	4/3/1992
PLACE SIZE:	127500
PLACE SIZE UNIT:	SqFt
FACILITY CONTACT NAME:	Gabriel Moreno
FACILITY CONTACT TITLE:	HSE Leader
FACILITY CONTACT PHONE:	619-671-5661
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	gabriel.moreno@honeywell.com
OPERATOR NAME:	Honeywell Inc
OPERATOR ADDRESS:	2055 Dublin Dr
OPERATOR CITY:	San Diego
OPERATOR STATE:	California
OPERATOR ZIP:	92154
OPERATOR CONTACT NAME:	Michael Miller
OPERATOR CONTACT TITLE:	Consultant
OPERATOR CONTACT PHONE:	619-671-5612
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	mike.a.miller@honeywell.com
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	619-251-2789
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported

HONEYWELL INC (Continued) **1000595157**

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 DESRIPTION:	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:	An unnamed perennial creek east of the site
CERTIFIER NAME:	Michael Miller
CERTIFIER TITLE:	Site Director
CERTIFICATION DATE:	05-MAY-15
PRIMARY SIC:	3822-Automatic Controls for Regulating Residential and Commercial Environments and Appliances
SECONDARY SIC:	3363-Aluminum Die-Castings
TERTIARY SIC:	Not reported
Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	9
Regulatory Measure Id:	218265
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	9 37I004021
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/03/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Honeywell Inc
Discharge Address:	2055 Dublin Dr
Discharge City:	San Diego
Discharge State:	California
Discharge Zip:	92154
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported

HONEYWELL INC (Continued) **1000595157**

OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	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 NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	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 DESRIPTION:	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 NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SAN DIEGO	S119097379	SDG&E - OTAY LAKES SUBSTATION	ALTA RD/ N OF OTAY MESA RD	92154	San Diego Co. HMMD
SAN DIEGO	1015730674	OTAY MESA CID DRUMS	CORNER HERITAGE ROAD AND OTAY	92154	SEMS

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: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

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: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/17/2017
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8704
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 04/07/2017
Number of Days to Update: 92	Next Scheduled EDR Contact: 07/17/2017
	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: 02/07/2017	Source: EPA
Date Data Arrived at EDR: 04/19/2017	Telephone: 800-424-9346
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 07/31/2017
	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: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/25/2017
Next Scheduled EDR Contact: 07/31/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

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: 12/28/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 93

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 11/15/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 11/15/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

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: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/15/2017
Next Scheduled EDR Contact: 05/29/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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 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 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 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 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

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 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 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 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

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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

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: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

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: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/12/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 57

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/16/2017
Next Scheduled EDR Contact: 06/26/2017
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: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

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: 01/14/2017
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

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: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

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: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

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: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

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

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: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
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: 01/03/2017
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

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: 03/02/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/02/2017
Next Scheduled EDR Contact: 07/03/2017
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: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 08/25/2016
Date Data Arrived at EDR: 08/26/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 49

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

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

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: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
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: 05/05/2017
Next Scheduled EDR Contact: 08/14/2017
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: 09/30/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 12/31/2016
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 54

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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

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: 09/30/2016
Date Data Arrived at EDR: 12/05/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 12/01/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/27/2017
Next Scheduled EDR Contact: 06/12/2017
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

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

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: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

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: 12/06/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/20/2017
Number of Days to Update: 45

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
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: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

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: 12/06/2016
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 105

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

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: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

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: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
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: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 02/03/2017
Next Scheduled EDR Contact: 05/29/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/15/2017
Next Scheduled EDR Contact: 05/29/2017
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: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
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: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/03/2017
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: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
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: 04/26/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
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: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 02/17/2017
Next Scheduled EDR Contact: 06/05/2017
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: 02/17/2017
Next Scheduled EDR Contact: 06/05/2017
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: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/06/2017
Next Scheduled EDR Contact: 07/17/2017
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: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

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: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
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: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/22/2017
Next Scheduled EDR Contact: 06/05/2017
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: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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: 03/07/2017
Next Scheduled EDR Contact: 07/10/2017
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: 03/07/2017
Next Scheduled EDR Contact: 04/10/2017
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: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 03/03/2017
Next Scheduled EDR Contact: 06/12/2017
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: 03/03/2017
Next Scheduled EDR Contact: 06/12/2017
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: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
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: 04/04/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 35

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 04/07/2017
Next Scheduled EDR Contact: 06/19/2017
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: 03/19/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
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: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
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: 02/22/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 79

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/22/2017
Next Scheduled EDR Contact: 06/05/2017
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: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 64

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

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: 09/02/2016
Date Data Arrived at EDR: 09/27/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 06/19/2017
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: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
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: 12/06/2016
Date Data Arrived at EDR: 12/09/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 40

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/16/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/20/2017
Number of Days to Update: 63

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 12/31/2015
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/22/2017
Next Scheduled EDR Contact: 06/05/2017
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: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/22/2017
Next Scheduled EDR Contact: 06/05/2017
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: 04/11/2017
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 04/26/2017
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/13/2017
Next Scheduled EDR Contact: 07/24/2017
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: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Varies

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: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/15/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 107

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/15/2017
Next Scheduled EDR Contact: 05/29/2017
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: 12/06/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 87

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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: 12/16/2016
Date Data Arrived at EDR: 12/22/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 70

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 04/03/2017
Next Scheduled EDR Contact: 07/03/2017
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: 01/20/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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 board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 02/17/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Quarterly

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: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
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 Historic Gas 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 Historic Dry 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:

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: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 31

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 37

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 94

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

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: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/23/2017
Date Data Arrived at EDR: 02/24/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 77

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/17/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/26/2017
Number of Days to Update: 65

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/24/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 73

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

FRESNO COUNTY:

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: 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: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/10/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 51

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 36

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

KINGS COUNTY:

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: 12/14/2016
Date Data Arrived at EDR: 12/16/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 6

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2017
Date Data Arrived at EDR: 01/20/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 41

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

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: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 66

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/17/2017
Date Data Arrived at EDR: 04/18/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 14

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/17/2017
Date Data Arrived at EDR: 01/18/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 112

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Semi-Annually

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: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/10/2017
Date Data Arrived at EDR: 01/13/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 110

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

MADERA COUNTY:

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: 12/05/2016
Date Data Arrived at EDR: 12/09/2016
Date Made Active in Reports: 01/19/2017
Number of Days to Update: 41

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/17/2017
Number of Days to Update: 42

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/05/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 17

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

NAPA COUNTY:

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: 03/09/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 54

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/08/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 44

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2016
Date Data Arrived at EDR: 11/11/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 73

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 85

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 1

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/19/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 98

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

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: 11/08/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

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: 12/09/2016
Date Data Arrived at EDR: 12/13/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

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: 10/05/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/10/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

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: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/28/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 62

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/21/2017
Date Data Arrived at EDR: 03/23/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 47

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/17/2016
Date Data Arrived at EDR: 11/21/2016
Date Made Active in Reports: 01/19/2017
Number of Days to Update: 59

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 33

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

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: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 11/16/2016
Date Data Arrived at EDR: 11/21/2016
Date Made Active in Reports: 01/19/2017
Number of Days to Update: 59

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

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

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: 02/24/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/10/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 75

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 11/16/2016
Date Data Arrived at EDR: 11/21/2016
Date Made Active in Reports: 01/19/2017
Number of Days to Update: 59

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 12/13/2016
Date Data Arrived at EDR: 12/16/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 76

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 1

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 47

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 12/22/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 65

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 55

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/25/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 34

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

VENTURA COUNTY:

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: 12/27/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 103

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

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: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

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: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

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: 09/26/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 89

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2017
Date Data Arrived at EDR: 03/15/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/15/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 10/28/2016
Date Data Arrived at EDR: 11/03/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 42

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
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: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 01/03/2017
Number of Days to Update: 96

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
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: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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Appendix F
County of San Diego DEH Records

FILE

SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH - CUPA
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

FILE

BUSINESS ACTIVITIES

Page of

I. FACILITY IDENTIFICATION

FACILITY ID # 3 7 0 0 0 1 9 9 0 6 4 1 — EPA ID # (Hazardous Waste Only) 2

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) 3

Martinez Ranch

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page (OES Form 2730).

Does your facility...	If Yes, please complete these pages of the UPCF....	
A. HAZARDOUS MATERIALS Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	☑ YES ☐ NO 4	HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION (OES 2731)
B. UNDERGROUND STORAGE TANKS (USTs)		
▪ Own or operate underground storage tanks?	☐ YES ☑ NO 5	UST FACILITY (Formerly SWRCB Form A) UST TANK (one page per tank) (Formerly Form B)
▪ Intend to upgrade existing or install new USTs?	☐ YES ☑ NO 6	UST FACILITY UST TANK (one per tank) UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)
▪ Need to report closing a UST?	☐ YES ☑ NO 7	UST TANK (closure portion –one page per tank)
C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs) Own or operate ASTs above these thresholds: —any tank capacity is greater than 660 gallons, or —the total capacity for the facility is greater than 1,320 gallons?	☑ YES ☐ NO 8	NO FORM REQUIRED TO CUPAs
D. HAZARDOUS WASTE		
▪ Generate hazardous waste?	☑ YES ☐ NO 9	EPA ID NUMBER – provide at the top of this page
▪ Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	☐ YES ☑ NO 10	RECYCLABLE MATERIALS REPORT (one per recycler)
▪ Treat hazardous waste on site?	☐ YES ☑ NO 11	ONSITE HAZARDOUS WASTE TREATMENT – FACILITY (Formerly DTSC Forms 1772) ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit) (Formerly DTSC Forms 1772 A, B, C, D and L)
▪ Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	☐ YES ☑ NO 12	CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)
▪ Consolidate hazardous waste generated at a remote site?	☐ YES ☑ NO 13	REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196)
▪ Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?	☐ YES ☑ NO 14	HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)

E. LOCAL REQUIREMENTS 15

- MEDICAL WASTE
  - Generate <200 lbs/month of Medical/Biohazardous Waste? ☐ YES ☑ NO
  - Generate ≥200 lbs/month of Medical/Biohazardous Waste? ☐ YES ☑ NO
  - Generate ≥200 lbs/month of Medical/Biohazardous Waste and treat any amount of medical waste ☐ YES ☑ NO
- Handle Toxic gases with threshold limit concentration (TLV) # 10 ppm in any quantity? ☐ YES ☑ NO

COUNTY OF SAN DIEGO
DEPARTMENT OF AGRICULTURE/WEIGHTS AND MEASURES
5555 OVERLAND AVE., BLDG. 3, SAN DIEGO, CA 92123-1292
PHONE: (619) 694-2739

H

--FOR OFFICE USE ONLY--

ESTAB NUMBER	CENSUS TR/INC CODE	BUS CODE	UNITS	ANNUAL FEE	EXPIR DATE(M-DAY)
H99064		K58		050000	0000
2	21	28	31	35	41

SIC-1	SIC-2	FIRE	WATER	SEWER	ZONING	MAP ON FILE	STATUS	ASSESSOR'S PARCEL NO.
								- - -
45	49	53	55	57	59	61	62	64

--PLEASE COMPLETE THE FOLLOWING SECTION--

ESTABLISHMENT OWNER NAME: Augustin Martinez (74)
(AREA) OWNER PHONE: 619-429 8841 (104)

ESTABLISHMENT ADDRESS:
STREET NUMBER: 1060 (114)
DIRECTION: (125)
STREET NAME: Cactus Rd. (127)
BLDG/SUITE: (147)

CITY: San Ysidro (151)
STATE: CA (166)
ZIP CODE: 92073 - (168)
(AREA) BUSINESS PHONE: 619-690 0879 (177)

SECOND NAME OR NAME OF MANAGEMENT COMPANY: (187)

MAILING ADDRESS (IF DIFFERENT FROM ESTABLISHMENT ADDRESS):
STREET NUMBER: (217)
DIRECTION: (228)
STREET NAME: (230)
BLDG/SUITE: (250)

CITY: (254)
STATE: (269)
ZIP CODE: (271) -

ESTABLISHMENT NAME: Martinez Farms (284)

GAS STATION
YES = 1
OTHER = 2
2 (314)

REASON FOR APPLICATION:
1 - NEW
2 - RE-OPEN
3 - OWNER CHANGE
i (315)

NUMBER OF EMPLOYEES: 40

IF OTHER, LIST TYPE OF BUSINESS: Farm

NAME OF PREVIOUS OWNER: (316)

DATE BUS ASSUMED: (346)

CONTACT PERSON: Augustin Martinez (352)

***** ALL APPLICANTS PLEASE COMPLETE APPROPRIATE SUPPLEMENTARY FORMS *****

I DECLARE UNDER PENALTY OF PERJURY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THE STATEMENTS MADE HEREIN ARE CORRECT AND TRUE. I HEREBY CONSENT TO ALL NECESSARY INSPECTIONS MADE PURSUANT TO LAW AND INCIDENTAL TO THE ISSUANCE OF THIS PERMIT AND THE OPERATION OF THIS BUSINESS.

SIGNATURE X Augustin Martinez DATE 3-2-88

AWM 224D

35 V

H file #: 199064

Date: 5-29-02

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS MANAGEMENT DIVISION
Annual Carcinogen and Reproductive Toxin Reporting List

Business Name: Martinez Ranch

Business Address: 2160 Cactus Rd

Business Owner or Operator: Jesus Martinez

Please complete the following by entering the chemical name in the chemical name column and then place a check "√" in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benzene you would write benzene in the chemical name column and place a check in the "< 1 gallon" column. (PLEASE NOTE: the symbol < means less than).

Chemical Name	<1 gallon	< 1 pound	< 10 gallons	< 10 pounds	< 55 gallons	< 500 pounds	Trade Secret
Amitrol							
Benomyl							
Captan				X			
Chlordane							
Chlorothalonil (Bravo, Daconil)							
DDT							

carnrep frm.md(05/96)

Chemical Name	<1 gallon	< 1 pound	< 10 gallons	< 10 pounds	< 55 gallons	< 500 pounds	Trade Secret
Dichlorvos (Vapona, Ravap)							
Dicofol (Kelthane)							
Dieldrin							
Dinoseb							
Folpet							
Lindane							
Mancozeb							
Maneb							
Methy Bromide							
Oxadiazon (Ronstar)							
Progargite (Comite)							
Toxaphene							
Warfarin							
Zineb							

SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH - CUPA
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

ENTERED JUN 05 2007
RECEIVED APR 09 2007

BUSINESS OWNER/OPERATOR IDENTIFICATION

Page ___ of ___

I. IDENTIFICATION

FACILITY ID# 37 000 199064		BEGINNING DATE 100	ENDING DATE 101
BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3: Martinez Ranch		BUSINESS PHONE 102: (619) 661-5416	
BUSINESS SITE ADDRESS 103: 2160 Cactus Rd			
CITY 104: San Diego	CA	ZIP CODE 105: 92154-8001	
DUN & BRADSTREET 106: None		SIC CODE (4 digit #) 107:	
COUNTY 108: San Diego			
BUSINESS OPERATOR NAME 109: Jesus Martinez		BUSINESS OPERATOR PHONE 110: (619) 666-3837	

II. BUSINESS OWNER

OWNER NAME 111: Jesus Martinez		OWNER PHONE 112: (619) 666-3837
OWNER MAILING ADDRESS 113: 2160 Cactus Rd		
CITY 114: San Diego	STATE 115: CA	ZIP CODE 116: 92154-8001

III. ENVIRONMENTAL CONTACT

CONTACT NAME 117:		CONTACT PHONE 118: ( )
CONTACT MAILING ADDRESS 119:		
CITY 120:	STATE 121:	ZIP CODE 122:

IV. EMERGENCY CONTACTS

–PRIMARY–	–SECONDARY–
NAME 123: Jesus Martinez	NAME 128:
TITLE 124: Owner	TITLE 129:
BUSINESS PHONE 125: (619) 661-5416	BUSINESS PHONE 130: ( )
24-HOUR PHONE 126: ( )	24-HOUR PHONE 131: ( )
PAGER # 127: ( )	PAGER # 132: ( )

ADDITIONAL LOCALLY COLLECTED INFORMATION:

E-MAIL: *	E-MAIL: *

*This information is optional and will remain confidential. Complete if you want to receive periodic program updates from HMD.

ALWAYS SUBMIT A COPY OF THIS COMPLETED PAGE WITH SUBMITTAL OF ANY OTHER UNIFIED PROGRAM CONSOLIDATED FORM.

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE 134: 02-20-2007	NAME OF DOCUMENT PREPARER 135:
NAME OF SIGNER (print) 136: Jesus Martinez	TITLE OF SIGNER 137: Owner	

e

H File # 199064 Date: 3-15-07

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS MANAGEMENT DIVISION

Annual Carcinogen and Reproductive Toxin Reporting List

Business Name: Martinez Ranch

Business Address: 2160 Cactus Road, San Diego 92154

Business Owner/Operator: Jesus Martinez

Please complete the following by entering the chemical name in the chemical name column and then place a check "✓" in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benomyl you would write benomyl in the chemical name column a place a check in the "<1 gallon" column. (Please note: the symbol < means less than).

Chemical Name	< 1 Gallon	< 1 Pound	< 10 Gallons	< 10 Pounds	< 55 Gallons	< 500 Pounds	Trade Secret
AMITROL							
BENOMYL							
CAPTAN							
CHLORDANE							
CHLOROTHALONIL (BRAVO, DACONIL)							
DDT							
DICHLORVOS (VAPONA, RAVAP)							
DICOFOL (KELTHANE)							
DIELDRIN							
DINOSEB							
FOLPET							
LINDANE							
MANCOZEB							
MANEB							
METHYL BROMIDE							
OXADIAZONE (RONSTAR)							
PROGARGITE (COMITE)							
TOXAPHENE							
WARFARIN							
ZINEB							

☒ Metham Sodium (VAPAM) 1,100 gal

SAN DIEGO COUNTY
DEPARTMENT OF AGRICULTURE, WEIGHTS & MEASURES
HAZARDOUS MATERIALS PROGRAM
5555 OVERLAND AVENUE SUITE 3101, SAN DIEGO, CA 92123
(858) 694-3122 FAX ((858) 495-5012

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION STATEMENT

PERMIT #: _____

REVIEWED BY: _____
Specialist's Name

DATE: ____/____/____

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides after submission of a complete Hazardous Materials Business Plan (HMBP). a business handling hazardous materials must annually submit 1. hazardous materials inventory, 2. list of emergency contacts, and 3. site plan,.

The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored. A complete HMBP includes the items to be submitted to the Hazardous Materials Division and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must certify the HMBP is current and maintained on site. See back for instructions and further clarification.

I. IDENTIFICATION

FACILITY ID# 3 7 0 0 0 199064

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
MARTINEZ RANCH

BUSINESS SITE ADDRESS 103
2160 CACTUS ROAD

CITY 104: ~~SAN YSIDRO~~ SAN DIEGO | CA | ZIP CODE 105: ~~92173-2214~~ 92154-8001

II. CERTIFICATION STATEMENT

Check only one of the following boxes:

☐ **INITIAL CERTIFICATION: This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.**

☑ **ANNUAL CERTIFICATION: This is an annual certification (H&SC Section 25505(d)&(e)(2)) that the HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, is current and includes all the information required in H&SC Section 25504, and 25509, and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification.**

☐ **CERTIFICATION OF CHANGES/REVISIONS: This is to certify that the HMBP has been reviewed (H&SC Section 25505(c) & 25510) and all necessary changes/revisions have been made. The HMBP is current and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification.**

AS AN AUTHORIZED REPRESENTATIVE, I CERTIFY UNDER THE PENALTY OF LAW, THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND BELIEVE THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE
[signature]	02-20-07
NAME OF SIGNER (print)	TITLE OF SIGNER
Jesus Martinez	owner

OFFICE USE

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

HMBP ACCEPTED: ____/____/____ BY: _____

☐ Letter A -HMBP accepted as submitted
☐ Letter B -HMBP accepted with revisions
☐ Emergency Response Plan
☐ Employee Training
☐ Site Map

HIRT SITE ☐
FIRE DIST. _____

REMARKS: _____

SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH - CUPA
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID #	3	7		0	0	0	1	9	9	0	6	4	1		EPA ID # (Hazardous Waste Only) 2

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) 3

Martinez Ranch

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page (OES Form 2730).

Does your facility...	If Yes, please complete these pages of the UPCF....	
A. HAZARDOUS MATERIALS Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	☑ YES ☐ NO 4	HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION (OES 2731)
B. UNDERGROUND STORAGE TANKS (USTs)		
▪ Own or operate underground storage tanks?	☐ YES ☑ NO 5	UST FACILITY (Formerly SWRCB Form A) UST TANK (one page per tank) (Formerly Form B)
▪ Intend to upgrade existing or install new USTs?	☐ YES ☑ NO 6	UST FACILITY UST TANK (one per tank) UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)
▪ Need to report closing a UST?	☐ YES ☑ NO 7	UST TANK (closure portion –one page per tank)
C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs) Own or operate ASTs above these thresholds: —any tank capacity is greater than 660 gallons, or —the total capacity for the facility is greater than 1,320 gallons?	☑ YES ☐ NO 8	NO FORM REQUIRED TO CUPAs
D. HAZARDOUS WASTE		
▪ Generate hazardous waste?	☑ YES ☐ NO 9	EPA ID NUMBER – provide at the top of this page
▪ Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	☐ YES ☑ NO 10	RECYCLABLE MATERIALS REPORT (one per recycler)
▪ Treat hazardous waste on site?	☐ YES ☑ NO 11	ONSITE HAZARDOUS WASTE TREATMENT – FACILITY (Formerly DTSC Forms 1772) ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit) (Formerly DTSC Forms 1772 A, B, C, D and L)
▪ Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	☐ YES ☑ NO 12	CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)
▪ Consolidate hazardous waste generated at a remote site?	☐ YES ☑ NO 13	REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196)
▪ Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?	☐ YES ☑ NO 14	HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)

E. LOCAL REQUIREMENTS 15

- MEDICAL WASTE
  - Generate <200 lbs/month of Medical/Biohazardous Waste? ☐ YES ☑ NO
  - Generate ≥200 lbs/month of Medical/Biohazardous Waste? ☐ YES ☑ NO
  - Generate ≥200 lbs/month of Medical/Biohazardous Waste and treat any amount of medical waste ☐ YES ☑ NO
- Handle Toxic gases with threshold limit concentration (TLV) # 10 ppm in any quantity? ☐ YES ☑ NO

036795 ✓

SAN DIEGO COUNTY
DEPARTMENT OF AGRICULTURE, WEIGHTS & MEASURES
HAZARDOUS MATERIALS PROGRAM
5555 OVERLAND AVENUE SUITE 3101, SAN DIEGO, CA 92123
(858) 694-3122 FAX ((858) 495-5012

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION STATEMENT

PERMIT #: _____

REVIEWED BY: _____

Specialist's Name

DATE: ____/____/____

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides after submission of a complete Hazardous Materials Business Plan (HMBP). a business handling hazardous materials must annually submit 1. hazardous materials inventory, 2. list of emergency contacts, and 3. site plan,.

The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored. A complete HMBP includes the items to be submitted to the Hazardous Materials Division and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must certify the HMBP is current and maintained on site. See back for instructions and further clarification.

I. IDENTIFICATION

FACILITY ID# 3 7 - 0 0 0 - 199064

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
MARTINEZ RANCH

BUSINESS SITE ADDRESS 103
2160 CACTUS ROAD

CITY 104: ~~SAN YSIDRO~~ SAN DIEGO | CA | ZIP CODE 105: ~~92173-2214~~ 92154-8001

II. CERTIFICATION STATEMENT

Check only one of the following boxes:

☐ **INITIAL CERTIFICATION: This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.**

☒ **ANNUAL CERTIFICATION: This is an annual certification (H&SC Section 25505(d)&(e)(2)) that the HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, is current and includes all the information required in H&SC Section 25504, and 25509, and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification.**

☐ **CERTIFICATION OF CHANGES/REVISIONS: This is to certify that the HMBP has been reviewed (H&SC Section 25505(c) & 25510) and all necessary changes/revisions have been made. The HMBP is current and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification.**

AS AN AUTHORIZED REPRESENTATIVE, I CERTIFY UNDER THE PENALTY OF LAW, THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND BELIEVE THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE: [signature] | DATE: 01-19-08

NAME OF SIGNER (print): JESUS MARTINEZ | TITLE OF SIGNER: owner

OFFICE USE

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

HMBP ACCEPTED: ____/____/____ BY: _____

☐ Letter A -HMBP accepted as submitted
☐ Letter B -HMBP accepted with revisions
☐ Emergency Response Plan
☐ Site Map
☐ Employee Training

HIRT SITE ☐
FIRE DIST. _____

REMARKS: _____

Check 38250

SAN DIEGO COUNTY
DEPARTMENT OF AGRICULTURE, WEIGHTS & MEASURES
HAZARDOUS MATERIALS PROGRAM
5555 OVERLAND AVENUE, SUITE 3101, SAN DIEGO, CA 92123-1256
(858) 694-8980 FAX (858) 694-3845

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides for the following:
The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, **in lieu of a complete Hazardous Materials Business Plan (HMBP)**, only after the initial submittal of a complete HMBP. The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored. A complete HMBP includes the items to be submitted to the HMD and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must also annually certify that the HMBP is current and maintained on site. See Back for instructions and further clarification.

I. IDENTIFICATION

FACILITY ID# 3 7 0 0 0 1 9 9 0 6 4

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) 3
Martinez Ranch

BUSINESS SITE ADDRESS 103
2160 Cactus Rd

CITY 104 San Diego | CA | ZIP CODE 105 92154

II. CERTIFICATION STATEMENT

☐ **CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES: This is an annual renewal to certify that the list of carcinogens and/or reproductive toxins last provided is a current list as specified in the San Diego County Code of Regulatory Ordinances Section 68.1113.**

Check only one of the following boxes:

☐ **INITIAL CERTIFICATION: This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.**

☒ **ANNUAL CERTIFICATION WITHOUT CHANGES: This is an annual certification (H&SC Section 25505(d)&(e)(2)) that the HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, is current and includes all the information required in H&SC Section 25504, and 25509, and is maintained at the site where the hazardous materials are stored.**

☐ **CERTIFICATION OF CHANGES/REVISIONS: This is to certify that the HMBP has been reviewed (H&SC Section 25505(c) & 25510) and all necessary changes/revisions have been made. The HMBP is current and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification. This submittal satisfies annual certification requirements specified in H&SC Section 25505(d)&(e)(2).**

As an Authorized Representative, I certify under the penalty of law, that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete. By checking any of the boxes above I also certify that : a)The information contained in the hazardous materials inventory most recently submitted to the CUPA or Administrative Agency is complete, accurate, and up to date; b) There has been no change in the quantity of hazardous materials reported in the most recently submitted inventory; and c) All hazardous materials subject to inventory requirements are listed on the most recently submitted inventory.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE
[signature]	10/14/09
NAME OF SIGNER (print) Jesus Martinez	TITLE OF SIGNER owner

OFFICE USE ONLY

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

☐ **Site Map** ___/___/___
☐ ***Emergency Contacts** ___/___/___
☐ ***Chemical Inventory** ___/___/___

*Note: Indicate the date that the inventory and/or ER contact information in the KIVA database was reviewed and changes were submitted for processing. If the inventory and ER contact information are exactly the same as it is recorded in KIVA, no changes need to be submitted.

Hazardous Materials Business Plan acceptance date will be changed to the acceptance date on new site map.
A letter will be mailed to business after processing of site map updates.

HIRT SITE ☐**

FIRE DIST.____

Specialist's Signature: (only required for new plans or for changes to site maps, chemical inventory and/or emergency contacts)

REMARKS:

** If HIRT box is checked, follow HIRT policy to indicate on the inventory forms which hazardous materials make this a HIRT site.

DEH:HM-953 (05/06) NCR Distribution: White – HMD; Yellow - Business Retains

ATTENTION: HAZARDOUS MATERIALS HANDLER

Chapter 6.95 of the California Health & Safety Code (H&SC) establishes minimum standards for Hazardous Materials Business Plans (HMBP). Each business shall prepare a HMBP if that business uses, handles, or stores a hazardous material/waste in quantities greater than or equal to the following:

- 55 gallons of a liquid.
- 500 pounds of a solid substance.
- 200 cubic feet of compressed gas.
- A toxic compressed gas (TLV $\leq$ 10 ppm) in any amount.
- Extremely hazardous substances in quantities equal to or greater than the Threshold Planning Quantities.

A complete HMBP consists of the following elements as established in H&SC Section 25504:

- Hazardous Materials Inventory
- Site Plan
- List of Emergency Contacts
- Emergency Response Plan
- Employee Training Plan

The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency and with the concurrence of all the local fire jurisdictions, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, <u>in lieu of a complete HMBP,</u> only after the initial submittal of a complete HMBP.

The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored and must also annually certify that the HMBP is current and maintained on site.

Substantial changes as listed below must be submitted to the HMD within 30 days of the change along with a certification that the HMBP is current and maintained on site:

- **A 100% or greater increase or decrease in the quantity of any hazardous material on the inventory**
- **Addition or deletion of a hazardous material to the inventory**
- **Changes in the storage, location, or use of hazardous materials**
- **Any change in business name, ownership, or address**
- **Any change in Emergency Coordinator/Contact information**

Instructions for Completing the Hazardous Materials Business Plan Certification

Note: The numbering of the instructions follows the data element numbers that are on statewide reporting forms. These data element numbers are used for electronic submission and are the same as the numbering used in 27 CCR, Appendix C.

1. FACILITY ID NUMBER - Enter the 6 character Permit Number from your Permit. If you do not have a Permit, leave this blank.

3. BUSINESS NAME - Enter the full legal name of the business. This is the same as the terms "Facility Name" or "DBA" – Doing Business As.

103. BUSINESS SITE ADDRESS - Enter the street address where the facility is located. No post office box numbers are allowed.

104. CITY - Enter the city or unincorporated area in which business site is located.

105. ZIP CODE - Enter the zip code of business site. The extra 4-digit zip may also be added.

CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES - Any business which is required to submit a HMBP and handles a material which is a carcinogen or reproductive toxin, is required to submit a list of each such material handled during the previous year to the Director of the Department of Environmental Health. The list must include all carcinogens and reproductive toxins handled in quantities less than 55 gallons or 500 pounds. The list of such materials handled shall be renewed each year. Check this box to certify that the information previously submitted is still correct and no changes, additions or deletions are necessary. See http://www.sdcounty.ca.gov/deh/hmd/forms_hmd.html and review HM-9243 (Disclosure of Hazardous Materials Information Bulletin) to find out if you are required to submit this list.

INITIAL CERTIFICATION: Check this box if you are submitting a new HMBP.

ANNUAL CERTIFICATION WITHOUT CHANGES: Check this box if you are submitting an annual certification on an existing plan.

CERTIFICATION OF CHANGES/REVISIONS: Check this box if you are submitting changes to the hazardous materials inventory, list of emergency contacts, or the site plan. All pages should include the new submittal date. For multi-page site maps, include all pages with new submittal date.

UPFP # 199064 Date: 3/8/10

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION

Annual Carcinogen and Reproductive Toxin Reporting List

Business Name: Martinez Ranch

Business Address: 2160 Cactus Rd SD 92154

Business Owner or Operator: Jesus Martinez

Please complete the following by entering the chemical name in the chemical name column and then place a check "✓" in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benomyl you would write benomyl in the chemical name column a place a check in the "<1 gallon" column. (Please note: the symbol < means less than).

Chemical Name	< 1 Gallon	< 1 Pound	< 10 Gallons	< 10 Pounds	< 55 Gallons	< 500 Pounds	Trade Secret
AMITROL							
BENOMYL							
BROMACIL & DIURON (KROVAR)							
CAPTAN							
CHLORDANE							
CHLOROTHALONIL (BRAVO, DACONIL)							
DDT							
DDVP-Dichlorvos (VAPONA, RAVAP)							
DIELDRIN							
DINOSEB							
FOLPET							
IPRODIONE and THIOPHANATE-METHYL (26/36 Fungicide)							
LINDANE							
MANCOZEB							
MANEB							
METHAM SODIUM (VAPAM)					X		
METHYL BROMIDE							
OXADIAZON (RONSTAR)							
PROPARGITE (COMITE)							
TOXAPHENE							
WARFARIN							

SAN DIEGO COUNTY
DEPARTMENT OF AGRICULTURE, WEIGHTS & MEASURES
HAZARDOUS MATERIALS PROGRAM
5555 OVERLAND AVENUE, SUITE 3101, SAN DIEGO, CA 92123-1256
(858) 694-8980 FAX (858) 694-3845

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides for the following:
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I. IDENTIFICATION

FACILITY ID# 3 7 0 0 0 1 9 9 0 6 4

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
Martinez Ranch

BUSINESS SITE ADDRESS 103
2160 Cactus Rd

CITY 104 San Diego | CA | ZIP CODE 105 92154-8001

II. CERTIFICATION STATEMENT

☐ **CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES: This is an annual renewal to certify that the list of carcinogens and/or reproductive toxins last provided is a current list as specified in the San Diego County Code of Regulatory Ordinances Section 68.1113.**

Check only one of the following boxes:

☐ **INITIAL CERTIFICATION: This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.**

☒ **ANNUAL CERTIFICATION WITHOUT CHANGES: This is an annual certification (H&SC Section 25505(d)&(e)(2)) that the HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, is current and includes all the information required in H&SC Section 25504, and 25509, and is maintained at the site where the hazardous materials are stored.**

☐ **CERTIFICATION OF CHANGES/REVISIONS: This is to certify that the HMBP has been reviewed (H&SC Section 25505(c) & 25510) and all necessary changes/revisions have been made. The HMBP is current and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification. This submittal satisfies annual certification requirements specified in H&SC Section 25505(d)&(e)(2).**

As an Authorized Representative, I certify under the penalty of law, that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete. By checking any of the boxes above I also certify that : a)The information contained in the hazardous materials inventory most recently submitted to the CUPA or Administrative Agency is complete, accurate, and up to date; b) There has been no change in the quantity of hazardous materials reported in the most recently submitted inventory; and c) All hazardous materials subject to inventory requirements are listed on the most recently submitted inventory.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE
[signature]	03-26-10
NAME OF SIGNER (print) Jesus Martinez	TITLE OF SIGNER owner

OFFICE USE ONLY

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

☐ **Site Map** ___/___/___
☐ ***Emergency Contacts** ___/___/___
☐ ***Chemical Inventory** ___/___/___

*Note: Indicate the date that the inventory and/or ER contact information in the KIVA database was reviewed and changes were submitted for processing. If the inventory and ER contact information are exactly the same as it is recorded in KIVA, no changes need to be submitted.

Hazardous Materials Business Plan acceptance date will be changed to the acceptance date on new site map.
A letter will be mailed to business after processing of site map updates.

HIRT SITE ☐**

FIRE DIST._____

Specialist's Signature: (only required for new plans or for changes to site maps, chemical inventory and/or emergency contacts)

REMARKS:

** If HIRT box is checked, follow HIRT policy to indicate on the inventory forms which hazardous materials make this a HIRT site.

DEH:HM-953 (05/06) NCR Distribution: White – HMD; Yellow - Business Retains

ATTENTION: HAZARDOUS MATERIALS HANDLER

Chapter 6.95 of the California Health & Safety Code (H&SC) establishes minimum standards for Hazardous Materials Business Plans (HMBP). Each business shall prepare a HMBP if that business uses, handles, or stores a hazardous material/waste in quantities greater than or equal to the following:

- 55 gallons of a liquid.
- 500 pounds of a solid substance.
- 200 cubic feet of compressed gas.
- A toxic compressed gas (TLV $\leq$ 10 ppm) in any amount.
- Extremely hazardous substances in quantities equal to or greater than the Threshold Planning Quantities.

A complete HMBP consists of the following elements as established in H&SC Section 25504:

- Hazardous Materials Inventory
- Site Plan
- List of Emergency Contacts
- Emergency Response Plan
- Employee Training Plan

The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency and with the concurrence of all the local fire jurisdictions, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, <u>in lieu of a complete HMBP,</u> only after the initial submittal of a complete HMBP.

The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored and must also annually certify that the HMBP is current and maintained on site.

Substantial changes as listed below must be submitted to the HMD within 30 days of the change along with a certification that the HMBP is current and maintained on site:

- **A 100% or greater increase or decrease in the quantity of any hazardous material on the inventory**
- **Addition or deletion of a hazardous material to the inventory**
- **Changes in the storage, location, or use of hazardous materials**
- **Any change in business name, ownership, or address**
- **Any change in Emergency Coordinator/Contact information**

Instructions for Completing the Hazardous Materials Business Plan Certification

Note: The numbering of the instructions follows the data element numbers that are on statewide reporting forms. These data element numbers are used for electronic submission and are the same as the numbering used in 27 CCR, Appendix C.

1. FACILITY ID NUMBER - Enter the 6 character Permit Number from your Permit. If you do not have a Permit, leave this blank.

3. BUSINESS NAME - Enter the full legal name of the business. This is the same as the terms "Facility Name" or "DBA" – Doing Business As.

103. BUSINESS SITE ADDRESS - Enter the street address where the facility is located. No post office box numbers are allowed.

104. CITY - Enter the city or unincorporated area in which business site is located.

105. ZIP CODE - Enter the zip code of business site. The extra 4-digit zip may also be added.

CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES - Any business which is required to submit a HMBP and handles a material which is a carcinogen or reproductive toxin, is required to submit a list of each such material handled during the previous year to the Director of the Department of Environmental Health. The list must include all carcinogens and reproductive toxins handled in quantities less than 55 gallons or 500 pounds. The list of such materials handled shall be renewed each year. Check this box to certify that the information previously submitted is still correct and no changes, additions or deletions are necessary. See http://www.sdcounty.ca.gov/deh/hmd/forms_hmd.html and review HM-9243 (Disclosure of Hazardous Materials Information Bulletin) to find out if you are required to submit this list.

INITIAL CERTIFICATION: Check this box if you are submitting a new HMBP.

ANNUAL CERTIFICATION WITHOUT CHANGES: Check this box if you are submitting an annual certification on an existing plan.

CERTIFICATION OF CHANGES/REVISIONS: Check this box if you are submitting changes to the hazardous materials inventory, list of emergency contacts, or the site plan. All pages should include the new submittal date. For multi-page site maps, include all pages with new submittal date.

SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH-CUPA
HAZARDOUS MATERIALS DIVISION
P.O. Box 129261, San Diego, CA 92112-9261
1-800-253-9933 (619) 338-2222 Fax (619) 338-2377

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides for the following:

The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, **in lieu of a complete Hazardous Materials Business Plan (HMBP),** only after the initial submittal of a complete HMBP. The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored. A complete HMBP includes the items to be submitted to the HMD and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must also annually certify that the HMBP is current and maintained on site. See Back for instructions and further clarification.

I. IDENTIFICATION

FACILITY ID# 3 7 0 0 0 1 9 9 0 0 21

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
Martinez Ranch

BUSINESS SITE ADDRESS 103
2166 Cactus Rd S

CITY 104 SD | CA | ZIP CODE 105 92154

II. CERTIFICATION STATEMENT

☐ **CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES: This is an annual renewal to certify that the list of carcinogens and/or reproductive toxins last provided is a current list as specified in the San Diego County Code of Regulatory Ordinances Section 68.1113.**

Check only one of the following boxes:

☐ **INITIAL CERTIFICATION: This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.**

☒ **ANNUAL CERTIFICATION WITHOUT CHANGES: This is an annual certification (H&SC Section 25505(d)&(e)(2)) that the HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, is current and includes all the information required in H&SC Section 25504, and 25509, and is maintained at the site where the hazardous materials are stored.**

☒ **CERTIFICATION OF CHANGES/REVISIONS: This is to certify that the HMBP has been reviewed (H&SC Section 25505(c) & 25510) and all necessary changes/revisions have been made. The HMBP is current and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification. This submittal satisfies annual certification requirements specified in H&SC Section 25505(d)&(e)(2).**

As an Authorized Representative, I certify under the penalty of law, that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete. By checking any of the boxes above I also certify that : a)The information contained in the hazardous materials inventory most recently submitted to the CUPA or Administrative Agency is complete, accurate, and up to date; b) There has been no change in the quantity of hazardous materials reported in the most recently submitted inventory; and c) All hazardous materials subject to inventory requirements are listed on the most recently submitted inventory.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE
[signature]	3/3/10
NAME OF SIGNER (print)	TITLE OF SIGNER
Jesus Martinez	owner

OFFICE USE

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

☐ **Site Map** ___/___/___
☐ ***Emergency Contacts** ___/___/___
☐ ***Chemical Inventory** ___/___/___

***Note**: Indicate the date that the inventory and/or ER contact information in the KIVA database was reviewed and changes were submitted for processing. If the inventory and ER contact information are exactly the same as it is recorded in KIVA, no changes need to be submitted.

Hazardous Materials Business Plan acceptance date will be changed to the acceptance date on new site map. A letter will be mailed to business after processing of site map updates.

HIRT SITE ☐**
FIRE DIST.____

Specialist's Signature: (only required for new plans or for changes to site maps, chemical inventory and/or emergency contacts)

REMARKS: _____

** If HIRT box is checked, follow HIRT policy to indicate on the inventory forms which hazardous materials make this a HIRT site.

ATTENTION: HAZARDOUS MATERIALS HANDLER

Chapter 6.95 of the California Health & Safety Code (H&SC) establishes minimum standards for Hazardous Materials Business Plans (HMBP). Each business shall prepare a HMBP if that business uses, handles, or stores a hazardous material/waste in quantities greater than or equal to the following:

- 55 gallons of a liquid.
- 500 pounds of a solid substance.
- 200 cubic feet of compressed gas.
- A toxic compressed gas (TLV $\leq$ 10 ppm) in any amount.
- Extremely hazardous substances in quantities equal to or greater than the Threshold Planning Quantities.

A complete HMBP consists of the following elements as established in H&SC Section 25504:

- Hazardous Materials Inventory
- Site Plan
- List of Emergency Contacts
- Emergency Response Plan
- Employee Training Plan

The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency and with the concurrence of all the local fire jurisdictions, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, <u>in lieu of a complete HMBP,</u> only after the initial submittal of a complete HMBP.

The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored and must also annually certify that the HMBP is current and maintained on site.

Substantial changes as listed below must be submitted to the HMD within 30 days of the change along with a certification that the HMBP is current and maintained on site:

- **A 100% or greater increase or decrease in the quantity of any hazardous material on the inventory**
- **Addition or deletion of a hazardous material to the inventory**
- **Changes in the storage, location, or use of hazardous materials**
- **Any change in business name, ownership, or address**
- **Any change in Emergency Coordinator/Contact information**

Instructions for Completing the Hazardous Materials Business Plan Certification

Note: The numbering of the instructions follows the data element numbers that are on Statewide reporting forms. These data element numbers are used for electronic submission and are the same as the numbering used in 27 CCR, Appendix C.

1. FACILITY ID NUMBER - Enter the 6 character Permit Number from your Permit. If you do not have a Permit, leave this blank.

3. BUSINESS NAME - Enter the full legal name of the business. This is the same as the terms "Facility Name" or "DBA" – Doing Business As.

103. BUSINESS SITE ADDRESS - Enter the street address where the facility is located. No post office box numbers are allowed.

104. CITY - Enter the city or unincorporated area in which business site is located.

105. ZIP CODE - Enter the zip code of business site. The extra 4-digit zip may also be added.

CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES - Any business which is required to submit a HMBP and handles a material which is a carcinogen or reproductive toxin, is required to submit a list of each such material handled during the previous year to the Director of the Department of Environmental Health. The list must include all carcinogens and reproductive toxins handled in quantities less than 55 gallons or 500 pounds. The list of such materials handled shall be renewed each year. Check this box to certify that the information previously submitted is still correct and no changes, additions or deletions are necessary. See http://www.sdcounty.ca.gov/deh/hmd/forms_hmd.html and review HM-9243 (Disclosure of Hazardous Materials Information Bulletin) to find out if you are required to submit this list.

INITIAL CERTIFICATION: Check this box if you are submitting a new HMBP.

ANNUAL CERTIFICATION WITHOUT CHANGES: Check this box if you are submitting an annual certification on an existing plan.

CERTIFICATION OF CHANGES/REVISIONS: Check this box if you are submitting changes to the hazardous materials inventory, list of emergency contacts, or the site plan. All pages should include the new submittal date. For multi-page site maps, include all pages with new submittal date.

cc.

2011

SAN DIEGO COUNTY
DEPARTMENT OF AGRICULTURE, WEIGHTS & MEASURES
HAZARDOUS MATERIALS PROGRAM
5555 OVERLAND AVENUE, SUITE 3101, SAN DIEGO, CA 92123-1256
(858) 694-8980 FAX (858) 694-3845

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides for the following:
The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, **in lieu of a complete Hazardous Materials Business Plan (HMBP),** only after the initial submittal of a complete HMBP. The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored. A complete HMBP includes the items to be submitted to the HMD and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must also annually certify that the HMBP is current and maintained on site. See Back for instructions and further clarification.

I. IDENTIFICATION

FACILITY ID#: 3 7 0 0 0 1 9 9 0 6 4

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As): MARTINEZ RANCH

BUSINESS SITE ADDRESS: 2160 CACTUS ROAD

CITY: SAN DIEGO | CA | ZIP CODE: 92154

II. CERTIFICATION STATEMENT

☐ **CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES: This is an annual renewal to certify that the list of carcinogens and/or reproductive toxins last provided is a current list as specified in the San Diego County Code of Regulatory Ordinances Section 68.1113.**

Check only one of the following boxes:

☐ **INITIAL CERTIFICATION: This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.**

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As an Authorized Representative, I certify under the penalty of law, that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete. By checking any of the boxes above I also certify that : a)The information contained in the hazardous materials inventory most recently submitted to the CUPA or Administrative Agency is complete, accurate, and up to date; b) There has been no change in the quantity of hazardous materials reported in the most recently submitted inventory; and c) All hazardous materials subject to inventory requirements are listed on the most recently submitted inventory.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE: [signature] | DATE: 7-15-01

NAME OF SIGNER (print): JESUS MARTINEZ | TITLE OF SIGNER: owner

OFFICE USE

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

☐ Site Map ___/___/___
☐ *Emergency Contacts ___/___/___
☐ *Chemical Inventory ___/___/___

*Note: Indicate the date that the inventory and/or ER contact information in the KIVA database was reviewed and changes were submitted for processing. If the inventory and ER contact information are exactly the same as it is recorded in KIVA, no changes need to be submitted.

Hazardous Materials Business Plan acceptance date will be changed to the acceptance date on new site map. A letter will be mailed to business after processing of site map updates.

HIRT SITE ☐**

FIRE DIST.____

Specialist's Signature: (only required for new plans or for changes to site maps, chemical inventory and/or emergency contacts)

REMARKS:

** If HIRT box is checked, follow HIRT policy to indicate on the inventory forms which hazardous materials make this a HIRT site.

DEH:HM-953 (05/06)

SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH - CUPA
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

FILE FILE

BUSINESS ACTIVITIES

Page of

I. FACILITY IDENTIFICATION

FACILITY ID # 3 7 0 0 0 1 9 9 0 6 8 1

EPA ID # (Hazardous Waste Only) 2

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) 3

Martinez Farm

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page (OES Form 2730).

Does your facility...		If Yes, please complete these pages of the UPCF....
A. HAZARDOUS MATERIALS Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	☑ YES ☐ NO 4	HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION (OES 2731)
B. UNDERGROUND STORAGE TANKS (USTs)		
▪ Own or operate underground storage tanks?	☐ YES ☑ NO 5	UST FACILITY (Formerly SWRCB Form A) UST TANK (one page per tank) (Formerly Form B)
▪ Intend to upgrade existing or install new USTs?	☐ YES ☑ NO 6	UST FACILITY UST TANK (one per tank) UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)
▪ Need to report closing a UST?	☐ YES ☑ NO 7	UST TANK (closure portion –one page per tank)
C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs) Own or operate ASTs above these thresholds: —any tank capacity is greater than 660 gallons, or —the total capacity for the facility is greater than 1,320 gallons?	☑ YES ☐ NO 8	NO FORM REQUIRED TO CUPAs
D. HAZARDOUS WASTE		
▪ Generate hazardous waste?	☑ YES ☐ NO 9	EPA ID NUMBER – provide at the top of this page
▪ Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	☐ YES ☑ NO 10	RECYCLABLE MATERIALS REPORT (one per recycler)
▪ Treat hazardous waste on site?	☐ YES ☑ NO 11	ONSITE HAZARDOUS WASTE TREATMENT – FACILITY (Formerly DTSC Forms 1772) ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit) (Formerly DTSC Forms 1772 A, B, C, D and L)
▪ Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	☐ YES ☑ NO 12	CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)
▪ Consolidate hazardous waste generated at a remote site?	☐ YES ☑ NO 13	REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196)
▪ Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?	☐ YES ☑ NO 14	HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)

E. LOCAL REQUIREMENTS 15

- MEDICAL WASTE
  - Generate <200 lbs/month of Medical/Biohazardous Waste? ☐ YES ☑ NO
  - Generate ≥200 lbs/month of Medical/Biohazardous Waste? ☐ YES ☑ NO
  - Generate ≥200 lbs/month of Medical/Biohazardous Waste and treat any amount of medical waste ☐ YES ☑ NO
- Handle Toxic gases with threshold limit concentration (TLV) # 10 ppm in any quantity? ☐ YES ☑ NO

Business Activities

Submit the Business Activities page and the Business Owner/Operator Identification page (OES Form 2730), for all submissions. NOTE: The numbering of the instructions follows the data element numbers that are on this form. These data element numbers are used for electronic submission and are the same as the numbering used in 27 CCR, Appendix C, and the Business Section of the Unified Program Data Dictionary. Please number all pages of your submittal. This helps the San Diego County, Department of Environmental Health (DEH), Hazardous Materials Division (HMD) identify whether the submittal is complete and if any pages are separated.

1. FACILITY ID NUMBER - Enter the 6 character Permit # on your Unified Program Facility Permit (UPFP). If you do not have a Unified Program Facility Permit, leave this blank.
2. EPA ID NUMBER - Enter your facility's 12-character U.S. EPA ID #. If you do not have a number, contact the Department of Toxic Substances Control (DTSC) at (800) - 61-TOXIC or (800) 618-6942, to obtain one.
3. BUSINESS NAME - Enter the full legal name of the business. This is the same as the terms "Facility Name" or "DBA" - Doing Business As.
4. HAZARDOUS MATERIALS ONSITE - Check the appropriate box to indicate whether you have a hazardous material onsite in the quantities listed in section A of this form. If "Yes", then you must then complete the Business Owner/Operator Identification page (OES Form 2730) and the Hazardous Materials Inventory - Chemical Description page (OES Form 2731), as well as a complete Hazardous Materials Business Plan (see HMD form DEH:HM952).
5. OWN OR OPERATE UNDERGROUND STORAGE TANK (UST) - Check the appropriate box to indicate whether you own or operate USTs containing hazardous substances as defined in Health and Safety Code (HSC) Section 25316. If "YES," then you must complete one UST Facility page and UST Tank pages for each tank. You must also submit a monitoring program plan (See HMD handout DEH:HM9222).
6. UPGRADE/INSTALL UST - Check the appropriate box to indicate whether you intend to install or upgrade USTs containing hazardous substances as defined in HSC Section 25316. If "YES," then you must complete the UST Installation - Certificate of Compliance page in addition to UST Facility and Tank pages, plot plan and monitoring program plan and the DEH installation, upgrade permit applications. Contact the HMD at (800) 253-9933.
7. UST CLOSURE - Check the appropriate box if you are closing an UST and complete the closure portion of the UST Tank pages for each tank. Submit a DEH closure application.
8. OWN OR OPERATE ABOVEGROUND PETROLEUM STORAGE TANK (AST) - Check the appropriate box to indicate whether there are ASTs onsite which exceed the regulatory thresholds. This program applies to all facilities storing petroleum in aboveground tanks. Petroleum means crude oil, or any fraction thereof, which is liquid at 60 degrees Fahrenheit temperature and 14.7 pounds per square inch absolute pressure (HSC Section 25270.2 (g)).
9. HAZARDOUS WASTE GENERATOR - Check the appropriate box to indicate whether your facility generates hazardous waste. A generator is the person or business whose acts or processes produce a hazardous waste or who causes a hazardous substance or waste to become subject to State hazardous waste law. Hazardous waste means a waste that meets any of the criteria for the identification of a hazardous waste adopted by DTSC pursuant to HSC ∋25141. "Hazardous waste" includes, but is not limited to, federally regulated hazardous waste. Federal hazardous waste law is known as the Resource Conservation and Recovery Act (RCRA). Unless explicitly stated otherwise, the term "hazardous waste" also includes extremely hazardous waste and acutely hazardous waste.
10. RECYCLE - Check the appropriate box to indicate whether your facility recycles more than 100 kilograms per month of recyclable material under a claim that the material is excluded or exempt per HSC Section 25143.2. Check "YES" and complete the Recyclable Materials Report pages, if you either recycled onsite or recycled excluded recyclable materials which were generated offsite. Check "NO" if you only send recyclable materials to an offsite recycler. You do not need to report.
11. ONSITE HAZARDOUS WASTE TREATMENT - Check the appropriate box to indicate whether your facility engages in onsite treatment of hazardous waste. "Treatment" means any method, technique, or process which is designed to change the physical, chemical, or biological character or composition of any hazardous waste or any material contained therein, or removes or reduces its harmful properties or characteristics for any purpose. Please contact the HMD to determine if any exemptions apply to your facility. If your facility engages in onsite treatment of hazardous waste then complete the Onsite Hazardous Waste Treatment Notification - Facility page and one set of Onsite Hazardous Waste Treatment Notification - Unit pages with waste and treatment process information for each unit.
12. FINANCIAL ASSURANCE - Check the appropriate box to indicate whether your facility is subject to financial assurance requirements for closure of an onsite treatment unit. Unless they are exempt, Permit by Rule (PBR) and Conditionally Authorized (CA) operations are required to provide financial assurance for closure costs (per 22 CCR Section 67450.13 (b) and HSC Section 25245.4). If your facility is subject to financial assurance requirements or claiming an exemption, then complete the Certification of Financial Assurance page.
13. REMOTE WASTE CONSOLIDATION SITE - Check the appropriate box to indicate whether your facility consolidates hazardous waste generated at a remote site. Answer "YES" if you are a hazardous waste generator that collects hazardous waste initially at remote sites and subsequently transports the hazardous waste to a consolidation site you also operate. You must be eligible pursuant to the conditions in HSC Section 25110.10. If your facility consolidates hazardous waste generated at a remote site, then complete the Remote Waste Consolidation Site Annual Notification page.
14. HAZARDOUS WASTE TANK CLOSURE - Check the appropriate box to indicate whether the tank being closed would be classified as hazardous waste after its contents are removed. Classification could be based on:
    –Your knowledge of the tank and its contents
    –Testing of the tank
    –The mixture rule
    –The listed wastes in 40 CFR 261.31 or 40 CFR 261.32.
    –Inability to remove hazardous materials stored in the tank.
    If the tank being closed would be classified as hazardous waste after its contents are removed, then you must complete the Hazardous Waste Tank Closure Certification page.
15. LOCAL REQUIREMENTS - If you generate Medical Waste you are required to obtain a Health Permit and submit a Biomedical Waste Management Plan. In addition to this, if you generate ≥200 lbs on medical waste per month and treat any amount of medical waste on site you may be required to apply for a medical waste treatment permit with the HMD. TOXIC GASES: If you handle toxic gases with threshold limit concentration (TLV) ≤10 ppm in any quantity, you are required to obtain a Health Permit and submit an HMD Hazardous Materials Business Plan.

COUNTY OF SAN DIEGO
DEPARTMENT OF AGRICULTURE/WEIGHTS AND MEASURES
5555 OVERLAND AVE., BLDG. 3, SAN DIEGO, CA 92123-1292
PHONE: (619) 694-2739

H

—FOR OFFICE USE ONLY—

ESTAB NUMBER	CENSUS TR/INC CODE	BUS CODE	UNITS	ANNUAL FEE	EXPIR DATE(M-DAY)
H99063		K58		000000	0000
2	21	28	31	35	41

SIC-1	SIC-2	FIRE	WATER	SEWER	ZONING	MAP ON FILE	STATUS	ASSESSOR'S PARCEL NO.
								- - -
45	49	53	55	57	59	61	62	64

—PLEASE COMPLETE THE FOLLOWING SECTION—

ESTABLISHMENT OWNER NAME: Richard Martinez (74)
(AREA) OWNER PHONE: 619-6906571 (104)

ESTABLISHMENT ADDRESS:
STREET NUMBER: 1190 (114)
DIRECTION: (125)
STREET NAME: Cactus Rd. (127)
BLDG/SUITE: (147)

CITY: San Diego (151)
STATE: CA. (166)
ZIP CODE: 92173 - (168)
(AREA) BUSINESS PHONE: 619-6906571 (177)

SECOND NAME OR NAME OF MANAGEMENT COMPANY: (187)

MAILING ADDRESS (IF DIFFERENT FROM ESTABLISHMENT ADDRESS):
STREET NUMBER: (217)
DIRECTION: (228)
STREET NAME: (230)
BLDG/SUITE: (250)

CITY: (254)
STATE: (269)
ZIP CODE: (271) -

ESTABLISHMENT NAME: Martinez Farm (284)

GAS STATION
YES = 1
OTHER = 2
2 (314)

REASON FOR APPLICATION:
1 - NEW
2 - RE-OPEN
3 - OWNER CHANGE
1 (315)

NUMBER OF EMPLOYEES: 25

IF OTHER, LIST TYPE OF BUSINESS: Nursery

NAME OF PREVIOUS OWNER: (316)

DATE BUS ASSUMED: (346)

CONTACT PERSON: Richard Martinez (352)

***** ALL APPLICANTS PLEASE COMPLETE APPROPRIATE SUPPLEMENTARY FORMS *****

I DECLARE UNDER PENALTY OF PERJURY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THE STATEMENTS MADE HEREIN ARE CORRECT AND TRUE. I HEREBY CONSENT TO ALL NECESSARY INSPECTIONS MADE PURSUANT TO LAW AND INCIDENTAL TO THE ISSUANCE OF THIS PERMIT AND THE OPERATION OF THIS BUSINESS.

SIGNATURE X Richard Martinez DATE 3/9/88

AWM 224D

35
V

H file #: 99068 Date: 9/30/96

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS MANAGEMENT DIVISION
Annual Carcinogen and Reproductive Toxin Reporting List

Business Name: Martinez Farm

Business Address: 2440 Cactus Road, San Diego 92173

Business Owner or Operator: Richard Martinez

Please complete the following by entering the chemical name in the chemical name column and then place a check "√" in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benzene you would write benzene in the chemical name column and place a check in the "< 1 gallon" column. (**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gallon	< 1 pound	< 10 gallons	< 10 pounds	< 55 gallons	< 500 pounds	Trade Secret
~~Amitrol~~							
~~Aspirin~~							
~~Benomyl~~							
Captan						X	
~~Chlordane~~							
Chlorothalonil (Bravo, Daconil)			X				
~~DDT~~							

Chemical Name	<1 gallon	< 1 pound	< 10 gallons	< 10 pounds	< 55 gallons	< 500 pounds	Trade Secret
Dichlorvos (Vapona, Ravap)							
Dicofol (Kelthane)							
Dieldrin							
Dinoseb							
Folpet							
Lindane							
Mancozeb							
Maneb							
Methy Bromide							
Oxadiazon (Ronstar)							
Progargite (Comite)							
Toxaphene							
Warfarin							
Zineb							

CR 89680

SAN DIEGO COUNTY
DEPARTMENT OF AGRICULTURE, WEIGHTS & MEASURES
HAZARDOUS MATERIALS PROGRAM
5555 OVERLAND AVENUE BLDG. 3, SAN DIEGO, CA 92123
(858) 694-2777 FAX ((858) 495-5012

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION STATEMENT

PERMIT #: 199068
REVIEWED BY: E. SLATER
Specialist's Name
DATE: 8/13/07

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides for the following:
The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, **in lieu of a complete Hazardous Materials Business Plan (HMBP),** only after the initial submittal of a complete HMBP. The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored. A complete HMBP includes the items to be submitted to the HMD and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must also annually certify that the HMBP is current and maintained on site. See Back for instructions and further clarification.

I. IDENTIFICATION

FACILITY ID#	3	7		0	0	0	199068	1

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
MARTINEZ FARMS

BUSINESS SITE ADDRESS 103
2440 CACTUS RD

CITY 104	CA	ZIP CODE 105
SAN DIEGO		**92173-2216**

II. CERTIFICATION STATEMENT

Check only one of the following boxes:

☐ **INITIAL CERTIFICATION: This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.**

☐ **ANNUAL CERTIFICATION: This is an annual certification (H&SC Section 25505(d)&(e)(2)) that the HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, is current and includes all the information required in H&SC Section 25504, and 25509, and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification.**

☐ **CERTIFICATION OF CHANGES/REVISIONS: This is to certify that the HMBP has been reviewed (H&SC Section 25505(c) & 25510) and all necessary changes/revisions have been made. The HMBP is current and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification.**

AS AN AUTHORIZED REPRESENTATIVE, I CERTIFY UNDER THE PENALTY OF LAW, THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND BELIEVE THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE
[signature]	7/18/07
NAME OF SIGNER (print)	TITLE OF SIGNER
Richard Martinez	OWNER

OFFICE USE

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

HMBP ACCEPTED: 8/13/07 BY: E Slater

☐ Letter A -HMBP accepted as submitted
☐ Letter B -HMBP accepted with revisions
☐ Emergency Response Plan
☐ Site Map
☐ Employee Training

HIRT SITE ☐
FIRE DIST._____

REMARKS:

91537 ✓

SAN DIEGO COUNTY
DEPARTMENT OF AGRICULTURE, WEIGHTS & MEASURES
HAZARDOUS MATERIALS PROGRAM
5555 OVERLAND AVENUE SUITE 3101, SAN DIEGO, CA 92123
(858) 694-3122 FAX ((858) 495-5012

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION STATEMENT

PERMIT #:

REVIEWED BY:

Specialist's Name

DATE: ____/____/____

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides after submission of a complete Hazardous Materials Business Plan (HMBP). a business handling hazardous materials must annually submit 1. hazardous materials inventory, 2. list of emergency contacts, and 3. site plan,.

The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored. A complete HMBP includes the items to be submitted to the Hazardous Materials Division and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must certify the HMBP is current and maintained on site. See back for instructions and further clarification.

I. IDENTIFICATION

FACILITY ID#	3 7 0 0 0 199068
BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)	MARTINEZ FARMS
BUSINESS SITE ADDRESS	2440 CACTUS RD
CITY	SAN DIEGO
STATE	CA
ZIP CODE	92173-2216

II. CERTIFICATION STATEMENT

Check only one of the following boxes:

☐ **INITIAL CERTIFICATION: This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.**

☒ **ANNUAL CERTIFICATION: This is an annual certification (H&SC Section 25505(d)&(e)(2)) that the HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, is current and includes all the information required in H&SC Section 25504, and 25509, and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification.**

☐ **CERTIFICATION OF CHANGES/REVISIONS: This is to certify that the HMBP has been reviewed (H&SC Section 25505(c) & 25510) and all necessary changes/revisions have been made. The HMBP is current and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification.**

AS AN AUTHORIZED REPRESENTATIVE, I CERTIFY UNDER THE PENALTY OF LAW, THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND BELIEVE THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE 1/8/08
NAME OF SIGNER (print) RICHARD MARTINEZ	TITLE OF SIGNER PLES

OFFICE USE

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

HMBP ACCEPTED: ____/____/____ BY: _____

☐ Letter A -HMBP accepted as submitted
☐ Letter B -HMBP accepted with revisions
☐ Emergency Response Plan
☐ Site Map
☐ Employee Training

HIRT SITE ☐
FIRE DIST. _____

REMARKS: _____

95949

SAN DIEGO COUNTY
DEPARTMENT OF AGRICULTURE, WEIGHTS & MEASURES
HAZARDOUS MATERIALS PROGRAM
5555 OVERLAND AVENUE, SUITE 3101, SAN DIEGO, CA 92123-1256
(858) 694-8980 FAX (858) 694-3845

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides for the following:
The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, **in lieu of a complete Hazardous Materials Business Plan (HMBP),** only after the initial submittal of a complete HMBP. The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored. A complete HMBP includes the items to be submitted to the HMD and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must also annually certify that the HMBP is current and maintained on site. See Back for instructions and further clarification.

I. IDENTIFICATION

FACILITY ID# 3 7 0 0 0 1 9 9 0 6 8

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
MARTINEZ FARMS

BUSINESS SITE ADDRESS 103
2440 CACTUS RD

CITY 104 SAN DIEGO | CA | ZIP CODE 105 92154

II. CERTIFICATION STATEMENT

☐ **CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES: This is an annual renewal to certify that the list of carcinogens and/or reproductive toxins last provided is a current list as specified in the San Diego County Code of Regulatory Ordinances Section 68.1113.**

Check only one of the following boxes:

☐ **INITIAL CERTIFICATION: This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.**

☒ **ANNUAL CERTIFICATION WITHOUT CHANGES: This is an annual certification (H&SC Section 25505(d)&(e)(2)) that the HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, is current and includes all the information required in H&SC Section 25504, and 25509, and is maintained at the site where the hazardous materials are stored.**

☐ **CERTIFICATION OF CHANGES/REVISIONS: This is to certify that the HMBP has been reviewed (H&SC Section 25505(c) & 25510) and all necessary changes/revisions have been made. The HMBP is current and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification. This submittal satisfies annual certification requirements specified in H&SC Section 25505(d)&(e)(2).**

As an Authorized Representative, I certify under the penalty of law, that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete. By checking any of the boxes above I also certify that : a)The information contained in the hazardous materials inventory most recently submitted to the CUPA or Administrative Agency is complete, accurate, and up to date; b) There has been no change in the quantity of hazardous materials reported in the most recently submitted inventory; and c) All hazardous materials subject to inventory requirements are listed on the most recently submitted inventory.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE
[signature]	2/09/07
NAME OF SIGNER (print) RICHARD MARTINEZ	TITLE OF SIGNER PRES.

OFFICE USE

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

☐ **Site Map** ___/___/___
☐ ***Emergency Contacts** ___/___/___
☐ ***Chemical Inventory** ___/___/___

*Note: Indicate the date that the inventory and/or ER contact information in the KIVA database was reviewed and changes were submitted for processing. If the inventory and ER contact information are exactly the same as it is recorded in KIVA, no changes need to be submitted

Hazardous Materials Business Plan acceptance date will be changed to the acceptance date on new site map. A letter will be mailed to business after processing of site map updates.

HIRT SITE ☐**

FIRE DIST.____

Specialist's Signature (only required for new plans or for changes to site maps, chemical inventory and/or emergency contacts)

REMARKS:

** If HIRT box is checked, follow HIRT policy to indicate on the inventory forms which hazardous materials make this a HIRT site.

DEH:HM-953 (05/06) NCR Distribution: White – HMD, Yellow - Business Retains

ATTENTION: HAZARDOUS MATERIALS HANDLER

Chapter 6.95 of the California Health & Safety Code (H&SC) establishes minimum standards for Hazardous Materials Business Plans (HMBP). Each business shall prepare a HMBP if that business uses, handles, or stores a hazardous material/waste in quantities greater than or equal to the following:

- 55 gallons of a liquid.
- 500 pounds of a solid substance.
- 200 cubic feet of compressed gas.
- A toxic compressed gas (TLV $\leq$ 10 ppm) in any amount.
- Extremely hazardous substances in quantities equal to or greater than the Threshold Planning Quantities.

A complete HMBP consists of the following elements as established in H&SC Section 25504:

- Hazardous Materials Inventory
- Site Plan
- List of Emergency Contacts
- Emergency Response Plan
- Employee Training Plan

The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency and with the concurrence of all the local fire jurisdictions, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, in lieu of a complete HMBP, only after the initial submittal of a complete HMBP.

The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored and must also annually certify that the HMBP is current and maintained on site.

Substantial changes as listed below must be submitted to the HMD within 30 days of the change along with a certification that the HMBP is current and maintained on site:

- **A 100% or greater increase or decrease in the quantity of any hazardous material on the inventory**
- **Addition or deletion of a hazardous material to the inventory**
- **Changes in the storage, location, or use of hazardous materials**
- **Any change in business name, ownership, or address**
- **Any change in Emergency Coordinator/Contact information**

Instructions for Completing the Hazardous Materials Business Plan Certification

Note: The numbering of the instructions follows the data element numbers that are on statewide reporting forms. These data element numbers are used for electronic submission and are the same as the numbering used in 27 CCR, Appendix C.

1. FACILITY ID NUMBER - Enter the 6 character Permit Number from your Permit. If you do not have a Permit, leave this blank.

3. BUSINESS NAME - Enter the full legal name of the business. This is the same as the terms "Facility Name" or "DBA" – Doing Business As.

103. BUSINESS SITE ADDRESS - Enter the street address where the facility is located. No post office box numbers are allowed.

104. CITY - Enter the city or unincorporated area in which business site is located.

105. ZIP CODE - Enter the zip code of business site. The extra 4-digit zip may also be added.

CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES - Any business which is required to submit a HMBP and handles a material which is a carcinogen or reproductive toxin, is required to submit a list of each such material handled during the previous year to the Director of the Department of Environmental Health. The list must include all carcinogens and reproductive toxins handled in quantities less than 55 gallons or 500 pounds. The list of such materials handled shall be renewed each year. Check this box to certify that the information previously submitted is still correct and no changes, additions or deletions are necessary. See http://www.sdcounty.ca.gov/deh/hmd/forms_hmd.html and review HM-9243 (Disclosure of Hazardous Materials Information Bulletin) to find out if you are required to submit this list.

INITIAL CERTIFICATION: Check this box if you are submitting a new HMBP.

ANNUAL CERTIFICATION WITHOUT CHANGES: Check this box if you are submitting an annual certification on an existing plan.

CERTIFICATION OF CHANGES/REVISIONS: Check this box if you are submitting changes to the hazardous materials inventory, list of emergency contacts, or the site plan. All pages should include the new submittal date. For multi-page site maps, include all pages with new submittal date.

SAN DIEGO COUNTY
DEPARTMENT OF AGRICULTURE, WEIGHTS & MEASURES
HAZARDOUS MATERIALS PROGRAM
5555 OVERLAND AVENUE, SUITE 3101, SAN DIEGO, CA 92123-1256
(858) 694-8980 FAX (858) 694-3845

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides for the following:
The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, **in lieu of a complete Hazardous Materials Business Plan (HMBP)**, only after the initial submittal of a complete HMBP. The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored. A complete HMBP includes the items to be submitted to the HMD and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must also annually certify that the HMBP is current and maintained on site. See Back for instructions and further clarification.

I. IDENTIFICATION

FACILITY ID# 3 7 0 0 0 7 9 9 0 6 8 1

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
MARTINEZ FARMS

BUSINESS SITE ADDRESS 103
2440 CACTUS RD

CITY 104 SAN DIEGO | CA | ZIP CODE 105 92154

II. CERTIFICATION STATEMENT

☐ **CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES: This is an annual renewal to certify that the list of carcinogens and/or reproductive toxins last provided is a current list as specified in the San Diego County Code of Regulatory Ordinances Section 68.1113.**

Check only one of the following boxes:

☐ **INITIAL CERTIFICATION: This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.**

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☐ **CERTIFICATION OF CHANGES/REVISIONS: This is to certify that the HMBP has been reviewed (H&SC Section 25505(c) & 25510) and all necessary changes/revisions have been made. The HMBP is current and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification. This submittal satisfies annual certification requirements specified in H&SC Section 25505(d)&(e)(2).**

As an Authorized Representative, I certify under the penalty of law, that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete. By checking any of the boxes above I also certify that : a)The information contained in the hazardous materials inventory most recently submitted to the CUPA or Administrative Agency is complete, accurate, and up to date; b) There has been no change in the quantity of hazardous materials reported in the most recently submitted inventory; and c) All hazardous materials subject to inventory requirements are listed on the most recently submitted inventory.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE
[signature]	12/11/09
NAME OF SIGNER (print)	TITLE OF SIGNER
RICHARD MARTINEZ	OWNER

OFFICE USE ONLY

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

☐ **Site Map** ____/____/____
☐ ***Emergency Contacts** ____/____/____
☐ ***Chemical Inventory** ____/____/____

*Note: Indicate the date that the inventory and/or ER contact information in the KIVA database was reviewed and changes were submitted for processing. If the inventory and ER contact information are exactly the same as it is recorded in KIVA, no changes need to be submitted.

Hazardous Materials Business Plan acceptance date will be changed to the acceptance date on new site map.
A letter will be mailed to business after processing of site map updates.

HIRT SITE ☐**

FIRE DIST._____

Specialist's Signature: (only required for new plans or for changes to site maps, chemical inventory and/or emergency contacts)

REMARKS:

** If HIRT box is checked, follow HIRT policy to indicate on the inventory forms which hazardous materials make this a HIRT site.

DEH:HM-953 (05/06) NCR Distribution: White – HMD; Yellow - Business Retains

ATTENTION: HAZARDOUS MATERIALS HANDLER

Chapter 6.95 of the California Health & Safety Code (H&SC) establishes minimum standards for Hazardous Materials Business Plans (HMBP). Each business shall prepare a HMBP if that business uses, handles, or stores a hazardous material/waste in quantities greater than or equal to the following:

- 55 gallons of a liquid.
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- 200 cubic feet of compressed gas.
- A toxic compressed gas (TLV $\leq$ 10 ppm) in any amount.
- Extremely hazardous substances in quantities equal to or greater than the Threshold Planning Quantities.

A complete HMBP consists of the following elements as established in H&SC Section 25504:

- Hazardous Materials Inventory
- Site Plan
- List of Emergency Contacts
- Emergency Response Plan
- Employee Training Plan

The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency and with the concurrence of all the local fire jurisdictions, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, <u>in lieu of a complete HMBP</u>, only after the initial submittal of a complete HMBP.

The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored and must also annually certify that the HMBP is current and maintained on site.

Substantial changes as listed below must be submitted to the HMD within 30 days of the change along with a certification that the HMBP is current and maintained on site:

- **A 100% or greater increase or decrease in the quantity of any hazardous material on the inventory**
- **Addition or deletion of a hazardous material to the inventory**
- **Changes in the storage, location, or use of hazardous materials**
- **Any change in business name, ownership, or address**
- **Any change in Emergency Coordinator/Contact information**

Instructions for Completing the Hazardous Materials Business Plan Certification

Note: The numbering of the instructions follows the data element numbers that are on statewide reporting forms. These data element numbers are used for electronic submission and are the same as the numbering used in 27 CCR, Appendix C.

1. FACILITY ID NUMBER - Enter the 6 character Permit Number from your Permit. If you do not have a Permit, leave this blank.

3. BUSINESS NAME - Enter the full legal name of the business. This is the same as the terms "Facility Name" or "DBA" – Doing Business As.

103. BUSINESS SITE ADDRESS - Enter the street address where the facility is located. No post office box numbers are allowed.

104. CITY - Enter the city or unincorporated area in which business site is located.

105. ZIP CODE - Enter the zip code of business site. The extra 4-digit zip may also be added.

CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES - Any business which is required to submit a HMBP and handles a material which is a carcinogen or reproductive toxin, is required to submit a list of each such material handled during the previous year to the Director of the Department of Environmental Health. The list must include all carcinogens and reproductive toxins handled in quantities less than 55 gallons or 500 pounds. The list of such materials handled shall be renewed each year. Check this box to certify that the information previously submitted is still correct and no changes, additions or deletions are necessary. See http://www.sdcounty.ca.gov/deh/hmd/forms_hmd.html and review HM-9243 (Disclosure of Hazardous Materials Information Bulletin) to find out if you are required to submit this list.

INITIAL CERTIFICATION: Check this box if you are submitting a new HMBP.

ANNUAL CERTIFICATION WITHOUT CHANGES: Check this box if you are submitting an annual certification on an existing plan.

CERTIFICATION OF CHANGES/REVISIONS: Check this box if you are submitting changes to the hazardous materials inventory, list of emergency contacts, or the site plan. All pages should include the new submittal date. For multi-page site maps, include all pages with new submittal date.

UPFP # 199068 ENTERED DEC 15 2010 Date: 10/27/10

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION

Annual Carcinogen and Reproductive Toxin Reporting List

Business Name: Martinez Farm

Business Address: 2440 Cactus Rd., SD, 92154

Business Owner or Operator: Richard Martinez

Please complete the following by entering the chemical name in the chemical name column and then place a check "✓" in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benomyl you would write benomyl in the chemical name column and place a check in the "<1 gallon" column. (Please note: the symbol < means less than).

Chemical Name	< 1 Gallon	< 1 Pound	< 10 Gallons	< 10 Pounds	< 55 Gallons	< 500 Pounds	Trade Secret
AMITROL							
BENOMYL							
BROMACIL & DIURON (KROVAR)							
CAPTAN							
CHLORDANE							
CHLOROTHALONIL (BRAVO, DACONIL)							
DDT							
DDVP-Dichlorvos (VAPONA, RAVAP)							
DIELDRIN							
DINOSEB							
FOLPET							
IPRODIONE and THIOPHANATE-METHYL (26/36 Fungicide)							
LINDANE							
MANCOZEB				X			
MANEB							
METHAM SODIUM (VAPAM)							
METHYL BROMIDE							
OXADIAZON (RONSTAR)							
PROPARGITE (COMITE)							
TOXAPHENE							
WARFARIN							

Complete Prop 65 list of Carcinogens and Reproductive Toxins at: http://oehha.ca.gov/prop65.html

AWM2009-HMR-00211
CK 102631

SAN DIEGO COUNTY
DEPARTMENT OF AGRICULTURE, WEIGHTS & MEASURES
HAZARDOUS MATERIALS PROGRAM
5555 OVERLAND AVENUE, SUITE 3101, SAN DIEGO, CA 92123-1256
(858) 694-8980 FAX (858) 694-3845

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides for the following:
The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, **in lieu of a complete Hazardous Materials Business Plan (HMBP),** only after the initial submittal of a complete HMBP. The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored. A complete HMBP includes the items to be submitted to the HMD and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must also annually certify that the HMBP is current and maintained on site. See Back for instructions and further clarification.

I. IDENTIFICATION

FACILITY ID# 3 7 0 0 0 1 9 9 0 6 8

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
MARTINEZ FARMS

BUSINESS SITE ADDRESS 103
2440 CACTUS RD

CITY 104 SAN DIEGO | CA | ZIP CODE 105 92154

II. CERTIFICATION STATEMENT

☐ **CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES: This is an annual renewal to certify that the list of carcinogens and/or reproductive toxins last provided is a current list as specified in the San Diego County Code of Regulatory Ordinances Section 68.1113.**

Check only one of the following boxes:

☐ **INITIAL CERTIFICATION: This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.**

☑ **ANNUAL CERTIFICATION WITHOUT CHANGES: This is an annual certification (H&SC Section 25505(d)&(e)(2)) that the HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, is current and includes all the information required in H&SC Section 25504, and 25509, and is maintained at the site where the hazardous materials are stored.**

☐ **CERTIFICATION OF CHANGES/REVISIONS: This is to certify that the HMBP has been reviewed (H&SC Section 25505(c) & 25510) and all necessary changes/revisions have been made. The HMBP is current and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification. This submittal satisfies annual certification requirements specified in H&SC Section 25505(d)&(e)(2).**

As an Authorized Representative, I certify under the penalty of law, that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete. By checking any of the boxes above I also certify that : a)The information contained in the hazardous materials inventory most recently submitted to the CUPA or Administrative Agency is complete, accurate, and up to date; b) There has been no change in the quantity of hazardous materials reported in the most recently submitted inventory; and c) All hazardous materials subject to inventory requirements are listed on the most recently submitted inventory.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE
[signature]	12/15/10
NAME OF SIGNER (print): RICHARD MARTINEZ	TITLE OF SIGNER: OWNER

OFFICE USE

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

☐ **Site Map** ___/___/___
☐ ***Emergency Contacts** ___/___/___
☐ ***Chemical Inventory** ___/___/___

*Note: Indicate the date that the inventory and/or ER contact information in the KIVA database was reviewed and changes were submitted for processing. If the inventory and ER contact information are exactly the same as it is recorded in KIVA, no changes need to be submitted.

Hazardous Materials Business Plan acceptance date will be changed to the acceptance date on new site map. A letter will be mailed to business after processing of site map updates.

HIRT SITE ☐**

FIRE DIST.____

Specialist's Signature: (only required for new plans or for changes to site maps, chemical inventory and/or emergency contacts)

REMARKS:

** If HIRT box is checked, follow HIRT policy to indicate on the inventory forms which hazardous materials make this a HIRT site.

DEH:HM-953 (05/06)

ATTENTION: HAZARDOUS MATERIALS HANDLER

Chapter 6.95 of the California Health & Safety Code (H&SC) establishes minimum standards for Hazardous Materials Business Plans (HMBP). Each business shall prepare a HMBP if that business uses, handles, or stores a hazardous material/waste in quantities greater than or equal to the following:

- 55 gallons of a liquid.
- 500 pounds of a solid substance.
- 200 cubic feet of compressed gas.
- A toxic compressed gas (TLV $\leq$ 10 ppm) in any amount.
- Extremely hazardous substances in quantities equal to or greater than the Threshold Planning Quantities.

A complete HMBP consists of the following elements as established in H&SC Section 25504:

- Hazardous Materials Inventory
- Site Plan
- List of Emergency Contacts
- Emergency Response Plan
- Employee Training Plan

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The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored and must also annually certify that the HMBP is current and maintained on site.

Substantial changes as listed below must be submitted to the HMD within 30 days of the change along with a certification that the HMBP is current and maintained on site:

- **A 100% or greater increase or decrease in the quantity of any hazardous material on the inventory**
- **Addition or deletion of a hazardous material to the inventory**
- **Changes in the storage, location, or use of hazardous materials**
- **Any change in business name, ownership, or address**
- **Any change in Emergency Coordinator/Contact information**

Instructions for Completing the Hazardous Materials Business Plan Certification

Note: The numbering of the instructions follows the data element numbers that are on statewide reporting forms. These data element numbers are used for electronic submission and are the same as the numbering used in 27 CCR, Appendix C.

1. FACILITY ID NUMBER - Enter the 6 character Permit Number from your Permit. If you do not have a Permit, leave this blank.

3. BUSINESS NAME - Enter the full legal name of the business. This is the same as the terms "Facility Name" or "DBA" – Doing Business As.

103. BUSINESS SITE ADDRESS - Enter the street address where the facility is located. No post office box numbers are allowed.

104. CITY - Enter the city or unincorporated area in which business site is located.

105. ZIP CODE - Enter the zip code of business site. The extra 4-digit zip may also be added.

CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES - Any business which is required to submit a HMBP and handles a material which is a carcinogen or reproductive toxin, is required to submit a list of each such material handled during the previous year to the Director of the Department of Environmental Health. The list must include all carcinogens and reproductive toxins handled in quantities less than 55 gallons or 500 pounds. The list of such materials handled shall be renewed each year. Check this box to certify that the information previously submitted is still correct and no changes, additions or deletions are necessary. See http://www.sdcounty.ca.gov/deh/hmd/forms_hmd.html and review HM-9243 (Disclosure of Hazardous Materials Information Bulletin) to find out if you are required to submit this list.

INITIAL CERTIFICATION: Check this box if you are submitting a new HMBP.

ANNUAL CERTIFICATION WITHOUT CHANGES: Check this box if you are submitting an annual certification on an existing plan.

CERTIFICATION OF CHANGES/REVISIONS: Check this box if you are submitting changes to the hazardous materials inventory, list of emergency contacts, or the site plan. All pages should include the new submittal date. For multi-page site maps, include all pages with new submittal date.

COUNTY OF SAN DIEGO
DEPARTMENT OF AGRICULTURE, WEIGHTS & MEASURES
HAZARDOUS MATERIALS PROGRAM
9325 HAZARD WAY, SUITE 100, SAN DIEGO, CA 92123-1217
(858) 694-8980 FAX (858) 467-9277

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides for the following:
The County of San Diego, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, **in lieu of a com plete Hazardous Materials Business Plan (H MBP),** only after the initial submittal of a complete HMBP. A complete HMBP includes the items to be submitted to the HMD and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must annually certify that a complete HMBP has been prepared, is current and is maintained at the site where the hazardous materials are stored. See *Back* for instructions and further clarification

I. IDENTIFICATION

FACILITY ID# 3 7 0 0 0 1 9 9 0 6 8 1

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
MARTINEZ FARMS

BUSINESS SITE ADDRESS 103
2440 CACTUS ROAD

CITY 104 SAN DIEGO | CA | ZIP CODE 105 92154

II. CERTIFICATION STATEMENT

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As an Authorized Representative, I certify, under the penalty of law, that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete. By checking any of the boxes above I also certify that: a) The information contained in the hazardous materials inventory most recently submitted to the CUPA or Administering Agency is complete, accurate, and up to date; b) There has been no change in the quantity of hazardous materials reported in the most recently submitted inventory; and c) All hazardous materials subject to inventory requirements are listed on the most recently submitted inventory.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE
[signature]	12/27/11
NAME OF SIGNER (print)	TITLE OF SIGNER
RICHARD MARTINEZ	OWNER

OFFICE USE

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

☐ **Site Map** ____/____/____
☐ ***Emergency Contacts** ____/____/____
☐ ***Chemical Inventory** ____/____/____

*Note: Indicate the date that the inventory and/or ER contact information in the KIVA database was reviewed and changes were submitted for processing. If the inventory and ER contact information are exactly the same as it is recorded in KIVA, no changes need to be submitted.

Hazardous Materials Business Plan acceptance date will be changed to the acceptance date on new site map.
A letter will be mailed to business after processing of site map updates.

HIRT SITE ☐**

FIRE DIST.____

Specialist's Signature: (only required for new plans or for changes to site maps, chemical inventory and/or emergency contacts)

REMARKS:

** If HIRT box is checked, follow HIRT policy to indicate on the inventory forms which hazardous materials make this a HIRT site.

ATTENTION: HAZARDOUS MATERIALS HANDLER

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A complete HMBP consists of the following elements as established in H&SC Section 25504:

- Hazardous Materials Inventory
- Site Plan (Site Map)
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- Employee Training Description

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Instructions for Completing the Hazardous Materials Business Plan Certification

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DEH2002-HMMP-199068

CK 108868

COUNTY OF SAN DIEGO
DEPARTMENT OF AGRICULTURE, WEIGHTS & MEASURES
HAZARDOUS MATERIALS PROGRAM
9325 HAZARD WAY, SUITE 100, SAN DIEGO, CA 92123-1217
(858) 694-8980 FAX (858) 467-9277

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MARTINEZ FARMS

BUSINESS SITE ADDRESS 103
2440 CACTUS RD

CITY 104 SAN DIEGO | CA | ZIP CODE 105 92154

II. CERTIFICATION STATEMENT

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SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE: [signature] | DATE: 1/3/13

NAME OF SIGNER (print): RICHARD MARTINEZ | TITLE OF SIGNER: OWNER

$100.00

OFFICE USE

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

☐ **Site Map** ___/___/___
☐ ***Emergency Contacts** ___/___/___
☐ ***Chemical Inventory** ___/___/___

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HIRT SITE ☐**

FIRE DIST.____

Specialist's Signature: (only required for new plans or for changes to site maps, chemical inventory and/or emergency contacts)

REMARKS:

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HM-953 (02/11) ✓AWM2009-HMR-00211

ATTENTION: HAZARDOUS MATERIALS HANDLER

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H File # _____ Date: 10-9-13

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS MANAGEMENT DIVISION

Annual Carcinogen and Reproductive Toxin Reporting List

Business Name: MARTINEZ FARMS (199068)

Business Address: 2440 CACTUS RD SAN DIEGO CA 92154

Business Owner/Operator: RICHARD MARTINEZ

Please complete the following by entering the chemical name in the chemical name column and then place a check "✓" in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benomyl you would write benomyl in the chemical name column a place a check in the "<1 gallon" column. (Please note: the symbol < means less than).

Chemical Name	< 1 Gallon	< 1 Pound	< 10 Gallons	< 10 Pounds	< 55 Gallons	< 500 Pounds	Trade Secret
AMITROL							
OMYL							
CAPTAN							
CHLORDANE							
CHLOROTHALONIL (BRAVO, DACONIL)			✓				
DDT							
DICHLORVOS (VAPONA, RAVAP)							
DICOFOL (KELTHANE)							
DIELDRIN							
DINOSEB							
FOLPET							
LINDANE							
MANCOZEB (DITHANE) FUNGICIDE							
MANEB							
METHYL BROMIDE							
OXADIAZONE (RONSTAR)							
PROGARGITE (COMITE)							
TOXAPHENE							
WARFARIN							
ZINEB							

ENTERED JAN 2 8 2010

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 4 DATE 1 / 8 / 2010
PERMIT# 21670 BUS. CODE 526
TIME START 10:00 END 11:30
SPECIALIST Fuentecilla
INSPECTION CONTACT Jesus Martinez
TITLE owner
PHONE (619) 666-3837

BUSINESS NAME MARTINEZ RANCH
ADDRESS 2160 CACTUS Rd
CITY/ZIP SD 92154

On the above date, the County inspected your business under the authority of the California Health and Safety Code (H&SC), to determine compliance with applicable provisions of the H&SC, the California Code of Regulations (CCR), and the San Diego County Code of Regulatory Ordinances (SDCC). **This report serves as a Notice to Comply (H&SC 25187.8 & 25404.1.2) for any minor violations as defined in H&SC 25404 and 25117.6.** This report may contain both minor and more significant (Class II) violations. Minor violations do not include repeat violations or violations remaining uncorrected for more than 30 days (or as specified below). Minor violations do not include knowing, willful, intentional, or chronic violations; nor do they include violations showing a pattern of neglect or disregard. The remarks below are intended to provide guidance to correct any violations indicated on the attached violation report. You must submit a written response to this report within 30 days (or as specified below) demonstrating that all violations have been corrected or include a written notice of disagreement that clearly states the reason for any disputed violations. Prompt correction can protect you from penalties for a "minor violation". Penalties can be imposed for each day in violation for all other violations even if they are corrected promptly. However, correction within 30 days (or as specified below) will make a penalty less likely.

Y*	N/A*		Y*	N/A*	
		NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.			
☐	☐	**Unified Program Facility Permit current**	Y*	N/A*	**Permit Expires on: __/__/__**
☐	☐	**Hazardous Materials Business Plan available**	☐	☐	**Contingency Plan available ☐LQG ☐SQG**
☐	☐	**Employee training is adequate**	☐	☐	**Employee training records available**
☐	☐	**Waste disposal records available for review**	☐	☐	**Universal waste managed properly**
☐	☐	**Emergency contacts current ☐ Updated today**	☐	☐	**Waste containers ☐ closed ☐ labeled**
☐	☐	**Chemical inventory/map current ☐ Updated today**	☐	☐	**Waste containers in good condition**

Consent to inspect granted by: ☐ Inspection Contact ☐ Other:

RFS 10-00+8595
NEW Business
RECEIVED JAN 2 0 2010

Business is an Agricultural (FARM) site. Dept. of Agriculture (SD County) Regulates the HAZARDOUS Materials inventory under PERMIT # 199064.
→ Mr. Jesus Martinez, Business owner / Mgr of the Facility provided ASSISTANCE in today's site inspection to determine HAZMAT compliance and PERMIT HAZWASTE requirements.
OBSERVATION:
HAZMAT INVENTORY: OBSERVED 5 x 5,000 gal, above ground tank petroleum products, stored on site: 2 x 5K tanks - diesel
3 x 5K tanks - gasoline.
2 x 50 gal. Good Motor oil (above GRND-TANK) - is used to maintain the equipment & Tractors on site.

☐ **This is an annual certification that the Hazardous Materials Business Plan (inventory & site map, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are stored.**

Initials of Business Representative JM.

PRINTED NAME OF BUSINESS REPRESENTATIVE: Jesus Martinez
DATE SIGNED: 01 / 08 / 2010
SIGNATURE OF BUSINESS REPRESENTATIVE: X
TITLE OF BUSINESS REPRESENTATIVE:

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
Phone: (619) 338-2222 Toll Free: (800) 253-9933 http://www.sdcdeh.org

COUNTY OF SAN DIEGO

SUPPLEMENTAL COMPLIANCE INSPECTION REPORT

PERMIT # 21670
DATE 1/8/2010
PAGE 2 OF 4

BUSINESS ADDRESS: 2160 CACTUS Rd ZIP CODE: 92154

(I) OBSERVED leaking diesel fuel from the filter casing (housing) dispenser hoses. - SMALL droplets of diesel fuel
- evidence of accumulated spill observed on the ground (DARK soil stain).
- Mr. Martinez confirmed the leaking filter and stated that he will replace/repair the filter casing as SOON AS possible.

To Comply: IMMEDIATELY -
1. Discontinue allowing diesel fuel to discharge unto the ground.
2. Replace leaking filter casing + hardware.
3. Provide secondary containment to the above Fuel TANKS. & to contain accidental spills. (Concrete berm was observed under the TANK structure).
- Utilize drip PANS under the dispenser to contain overspill from dispenser hose.

4. Inspect the tank daily - conduct a daily visual Inspection of any storage tank storing petroleum. - THIS includes waste oil and lubricating oil storage area.
5. Remove contaminated soil + Dispose of AS HAZ. waste.

(II) OBSERVED 10 x 5 gal containers of used oil, 1 x 5 gal. used oil filters and RAGS soiled with grease.
HAZ WASTE
- Containers are missing hazardous waste labels.

To Comply:
1. Recommend to contain used oil in A Drum container (55 gal.).
- (1) Affix A hazardous waste label to each waste oil

SIGNATURE OF BUSINESS REPRESENTATIVE | 01/08/2010 DATE SIGNED | Owner TITLE OF BUSINESS REPRESENTATIVE

COUNTY OF SAN DIEGO

SUPPLEMENTAL COMPLIANCE INSPECTION REPORT

PERMIT # 211670
DATE 1 / 8 / 10
PAGE 3 OF 4

BUSINESS ADDRESS: 2160 Cactus Rd ZIP CODE: 92154

Containers; Label - used oil filter container as "DRAINED used oil filter".

(2) OBTAIN A UNIFIED Program Facility permit - UPF permit application completed during this inspection.

(3) OBTAIN AN EPA ID # (contact DTSC Dept. of Toxic Subs. Control) Info packet provided during this inspection.

(4) Label Empty 55 gal. DRUMS as "EMPTY".

Contact a state registered Hazardous waste hauler to dispose of your accumulated waste oil + filters, contam. rags + soil.

(5) Conduct employee training at least once a year.

Submit a completed Return to Compliance documentation to this Dept. in 30 days.

Note: A reinspection fee will be assessed if another site visit is required to verify complete compliance.

SIGNATURE OF BUSINESS REPRESENTATIVE

01 / 08 / 2010
DATE SIGNED

owner
TITLE OF BUSINESS REPRESENTATIVE

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT
Small and Large Quantity Generators of Hazardous Waste
Handlers of Hazardous Materials

PERMIT # 211670
DATE 1 / 8 / 10
PAGE 4 OF 4

FACILITY ADDRESS: 7160 Cowles Rd **ZIP:** 92154

VIOLATION REPORT The items checked below refer to specific section numbers of Titles 19 & 22 of the California Code of Regulations (CCR), Chapters 6.5, 6.67 & 6.95 of the Health and Safety Code, and/or the San Diego County Code (SDCC) Small Quantity Hazardous Waste Generator=(SQG), Large Hazardous Waste Quantity Generator=(LQG), Code 40 of Federal Regulations=(CFR). **All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form (HM-926) to document your return to compliance. Your Specialist can provide this form. Please call (619) 338-2231 or your Specialist if you have any questions.**

HAZARDOUS MATERIALS REQUIREMENTS

Viol #	V		VIOLATION DESCRIPTION
	☐	1001	UPF permit not obtained for hazardous materials. SDCC 68.905
	☐	1002	HMBP not established/implemented. 25503.5(a)
	☐	1004	HMBP not submitted to HMD. 25505(a)
	☐	1005	Emergency contact not provided or current. 25509(a)(7)
	☐	1007	Highly toxic gas (TLV≤10 ppm) not disclosed. 68.1113(b)
	☐	1008	Did not submit annual carcinogen/reproductive toxin list. 68.1113(c)
	☐	1009	Site map is not sufficient or complete. 25509(a)(5) & 25505(a)(2)
	☐	1010	Did not report release or threatened release. 25507(a), 19 CCR 2703
	☐	1012	SPCC Plan not prepared. 25270.3 & 25270.4.5(a)
	☐	1013	Copy of HMBP not onsite for inspector's review. 25505(e)
	☐	1014	HMBP is incomplete/inadequate/not amended to reflect changes. 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729
	☐	1015	Did not have adequate employee training program 2732 &/or 25504(c)
	☐	1016	Failed to have an adequate emergency response plan 25504(b); 2731
	☐	1017	Business Plan not certified annually. 25505(d) & (e)(2)
	☐	1018	Inventory not amended for 100% increase of hazardous material onsite or inventory is incomplete. 25509, 25510
	☐	1019	SPCC Plan amendment not prepared within 6 months of change. 25270.4.5(a) [ref. CFR 112.1(b) & CFR 112.5]

HAZWASTE REQUIREMENTS FOR LQGs & SQGs

RECORDKEEPING

2	☐	0131	Unified Program Facility (UPF) permit not obtained. SDCC 68.905
3	☐	0132	Failed to obtain & maintain a valid EPA ID Number. 66262.12(a)
	☐	0133	Failed to send manifest copy to DTSC. 66262.23(a)(4)
	☐	0134	Failed to file Exception Report with DTSC. 66262.42
	☐	0135	Failed to keep hazardous waste manifests/receipts for 3 years available for inspection. 66262.40(a) & 25160.2(b)(3)
	☐	0136	Did not have records of battery disposal. 66266.81(a)(4)(B)
	☐	0137	Failed to complete manifest properly. 66262.23(a)
	☐	0138	Manifest signed by the TSDF not available for inspection. 66262.40(a)
	☐	0140	Failed to have LDR documentation onsite. 66268.7(a)(8)
	☐	0141	Failed to obtain approval for TSDF. 25201(a)
	☐	0142	Failed to notify CUPA for eligible onsite treatment. 25201(a)
	☐	0145	ERM reporting not submitted biennially &/or available. 25143.10
	☐	0146	Failed to have adequate records demonstrating claim of exemption for Excluded Recyclable Material (ERM). 25143.2(f) & 66261.2(g)
	☐	0147	Failed to keep records of offsite universal waste shipment(s) available for inspection. 66273.39(c) & (d).
	☐	0148	Failed to keep copies of analytical results, waste analysis records, or waste determination results. (3 years) 66262.40(c)
	☐	0149	Failed to keep disposal receipts (3 years) for drained used oil filters &/or drained fuel filters. 25250.22 & 66266.130(c)(5)

DISPOSAL AND TRANSPORTATION

	☐	0301	Unauthorized disposal of hazardous waste. 25189.5(a) or 25189(d)
	☐	0302	Unlawful transportation of hazardous waste (HW). 25163(a)
	☐	0303	Did not use HW manifest for disposal.66262.20(a), 25160.2(b)(9)
	☐	0304	Failed to make a proper waste determination. 66262.11 & 66260.200(c)
	☐	0305	Disposed of used oil illegally. 25250.5(a) & 25189.5(a)
	☐	0306	Disposed of latex paint illegally. 25217.1
	☐	0307	Disposal of universal waste (UW) to an unauthorized point. 25189.5(a); 66273.31(a)
	☐	0308	Impermissible dilution of hazardous waste. 66268.3(a)

HAZWASTE REQUIREMENTS FOR LQGs & SQGs

Viol #	V		VIOLATION DESCRIPTION
			STORAGE AND HANDLING
	☐	0215	Used oil filters improperly managed. 66266.130
	☐	0216	Failed to label hazardous materials within 10 days or less. 25124(b)(3)(A) & 66262.34(f)
	☐	0217	Failed to repackage damaged/deteriorated hazardous material container within 96 hours. 25124(b)(3)(B) & 66262.34(f)
	☐	0218	Failed to label &/or close drained ☐ used oil filters &/or ☐ used fuel filters. 25250.22 & 66266.130(c)(3)
	☐	0219	Failed to properly segregate used oil &/or fuel drained from filters. 66266.130(c)(6) or 25250.22(b)(4)
	☐	0220	Spent lead acid batteries not properly managed. 66266.81
	☐	0221	Failed to comply with satellite regulations. 66262.34(e)
	☐	0222	Failed to properly label ERM. 25143.9(a)
	☐	0223	Failed to properly manage non-empty container or inner liner removed from a container. 66261.7(b), (d) &/or (r)
4	☐	0224	Failed to mark date on empty container larger than 5 gallons &/or manage it within one year. 66261.7(e) & (f).
	☐	0237	Failed to properly dispose of UW within one year. 66273.35(a)

HAZWASTE REQUIREMENTS FOR SQGs ONLY

STORAGE AND HANDLING Pursuant to 66262.34(d)

	☐	0225	Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(e) & (f), &/or 25201(a) [>90 days for an AHW waste]
	☐	0226	Did not accumulate waste in container or tank. 66262.34(d)(2)
1	☐	0227	Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
	☐	0228	Failed to keep container closed. CFR 265.173
	☐	0229	Failed to conduct weekly inspections. CFR 265.174
	☐	0230	Failed to maintain aisle space. CFR 265.35
	☐	0231	Failed to properly separate incompatible wastes. CFR 265.177
	☐	0232	Waste accumulated in a container in poor condition. CFR 265.171
	☐	0233	Failed to use a lined/compatible container. CFR 265.172.
	☐	0234	Did not maintain &/or operate facility to prevent release or fire. CFR 265.31

TRAINING, CONTINGENCY PLAN & ER PROCEDURES Pursuant to 66262.34(d)(2)

5	☐	0407	Employee training program not adequate. CFR 262.34(d)(5)(iii)
	☐	0408	Failed to post ER plan by phone. CFR 262.34(d)(5)(ii)
	☐	0409	Spill/fire control equip not available. CFR 265.32(c)
	☐	0410	Failed to equip facility with internal communication or alarm. CFR 265.32(a) & (b)
	☐	0411	Failed to carry out contingency plan during an emergency. CFR 262.34(d)(5)(iv)
	☐	0412	Failed to have an emergency coordinator on call or available during emergency. CFR 262.34(d)(5)(i)

HAZARDOUS WASTE TANK SYSTEMS Pursuant to 66262.34(d)(2)

	☐	1612	Hazardous waste improperly stored in a tank system that ☐leaks, ☐ is corroded, or ☐failing. CFR 265.201(b)(2)
	☐	1613	Failed to comply with tank standards which include: two (2) feet of freeboard (where applicable), shut off for waste feed line, and daily and weekly inspections. CFR 265.201(b) & (c)
	☐	1614	Failed to properly complete &/or document closure for a hazardous waste tank. CFR 265.201(d) & 67383.3
	☐	1615	Failed to safely accumulate ignitable or reactive waste in a tank. CFR 265.201(e)
	☐	1616	Failed to safely manage incompatible waste in a tank. CFR 265.201(f)

X [signature] — SIGNATURE OF FACILITY REPRESENTATIVE

01 / 08 / 2010 — DATE SIGNED

Owner — TITLE OF FACILITY REPRESENTATIVE

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

_____/_____/_____
Date Submitted

BUSINESS ACTIVITIES

Page of

I. FACILITY IDENTIFICATION

FACILITY ID #	3 7 0 0 0 2 1 1 6 7 0	1
EPA ID # (Hazardous Waste Only)		2
BUSINESS NAME (Same as FACILITY NAME of DBA-Doing Business As)	Martinez Ranch	3
BUSINESS SITE ADDRESS	2160 Cactus Rd	103
BUSINESS SITE CITY	San Diego	104
CA		
ZIP CODE	92154	105

ENTERED JAN 2 8 2010

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page.

Does your facility…	If Yes, please complete these pages of the UPCF….	
A. HAZARDOUS MATERIALS 199064 Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	☒ YES ☐ NO 4	HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
B. REGULATED SUBSTANCES Have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	☐ YES ☒ NO 4a	Coordinate with your local agency responsible for CalARP
C. UNDERGROUND STORAGE TANKS (USTs) Own or operate underground storage tanks?	☐ YES ☒ NO 5	UST FACILITY (Formerly SWRCB Form A) HM-9715 UST TANK (one page per tank-Formerly Form B) HM-9717
D. ABOVE GROUND PETROLEUM STORAGE Store greater than 1,320 gallons of petroleum products (new or used) in above ground tanks or containers?	☐ YES ☒ NO 8	NO FORM REQUIRED TO CUPAs
E. HAZARDOUS WASTE		w/o filters
▪ Generate hazardous waste?	☒ YES ☐ NO 9	EPA ID NUMBER – provide at the top of page
▪ Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	☐ YES ☒ NO 10	RECYCLABLE MATERIALS REPORT (one per recycler)
▪ Treat hazardous waste on site?	☐ YES ☒ NO 11	ONSITE HAZARDOUS WASTE TREATMENT – FACILITY ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit)
▪ Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	☐ YES ☒ NO 12	CERTIFICATION OF FINANCIAL ASSURANCE
▪ Consolidate hazardous waste generated at a remote site?	☐ YES ☒ NO 13	REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION
▪ Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?	☐ YES ☒ NO 14	HAZARDOUS WASTE TANK CLOSURE CERTIFICATION
▪ Generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste?	☐ YES ☒ NO 14a	Obtain federal EPA ID Number, file Biennial Report (EPA Form 8700-13A/B), and satisfy requirements for RCRA Large Quantity Generator.
▪ Household Hazardous Waste (HHW) Collection site?	☐ YES ☒ NO 14b	See CUPA for required forms.

F. LOCAL REQUIREMENTS 15

▪ MEDICAL WASTE

Generate <200 lbs/month of Medical/Biohazardous Waste?	☐ YES	☒ NO
Generate ≥200 lbs/month of Medical/Biohazardous Waste?	☐ YES	☒ NO
Generate ≥200 lbs/month of Medical/Biohazardous Waste and treat any amount of medical waste?	☐ YES	☒ NO
▪ Handle Toxic gases with threshold limit concentration (TLV) # 10 ppm in any quantity?	☐ YES	☒ NO

Business Activities

Submit the Business Activities page and the Business Owner/Operator Identification page for all submissions. NOTE: The numbering of the instructions follows the data element numbers that are on this form. These data element numbers are used for electronic submission and are the same as the numbering used in Division 3, Electronic Submittal of Information and the Business Section of the Unified Program Data Dictionary. Please number all pages of your submittal. This helps the San Diego County, Department of Environmental Health (DEH), Hazardous Materials Division (HMD) identify whether the submittal is complete and if any pages are separated.

1. FACILITY ID NUMBER - Enter the 6 character Permit # on your Unified Program Facility Permit (UPFP). If you do not have a Unified Program Facility Permit, leave this blank.
2. EPA ID NUMBER - Enter your facility's 12-character U.S. EPA ID # If you do not have a number, contact the Department of Toxic Substances Control (DTSC) at (800) - 61-TOXIC or (800) 618-6942, to obtain one.
3. BUSINESS NAME - Enter the full legal name of the business. This is the same as the terms "Facility Name" or "DBA" - Doing Business As.

103. BUSINESS SITE ADDRESS - Enter the street address where the facility is located. No post office box numbers are allowed. This information must provide a means to geographically locate the facility.

104. BUSINESS SITE CITY - Enter the city or unincorporated area in which business site is located.

105. ZIP CODE - Enter the zip code of business site. Zip +4 may also be added.

4. HAZARDOUS MATERIALS ONSITE - Check the appropriate box to indicate whether you have a hazardous material onsite in the quantities listed in section A of this form. If "Yes", then you must then complete the Business Owner/Operator Identification page (DEH:HM-9702) and the Hazardous Materials Inventory - Chemical Description page (DEH:HM-9703), as well as a complete Hazardous Materials Business Plan (DEH:HM-952) and Hazardous Materials Business Plan Certification Statement (DEH:HM-953).

4a. REGULATED SUBSTANCES – Refer to www.oes.ca.gov, hazardous materials, CalARP guidance documents for regulated substances required by 19 CCR 2770.5. Check the box to indicate whether your facility has CalARP regulated substances stored onsite.

5. OWN OR OPERATE UNDERGROUND STORAGE TANK (UST) - Check the appropriate box to indicate whether you own or operate (or plan to install or upgrade) USTs containing hazardous substances as defined in Health and Safety Code (HSC) Section 25316. If "YES," then you must complete one UST Facility page and UST Tank pages for each tank. You must also submit a monitoring program plan (See HMD handout DEH:HM-9222). If you are installing USTs, then you must complete the UST Installation - Certificate of Compliance page in addition to UST Facility and Tank pages, plot plan and monitoring program plan and the DEH installation, upgrade permit applications. If you are closing an UST, complete the closure portion of the UST Tank pages for each tank. Submit a DEH closure application. Contact the HMD at (800) 253-9933.

8. OWN OR OPERATE ABOVEGROUND PETROLEUM STORAGE TANKS OR CONTAINERS- Check the appropriate box to indicate whether there is petroleum stored onsite which exceed the regulatory thresholds. Petroleum means crude oil, or any fraction thereof, which is liquid at 60 degrees Fahrenheit temperature and 14.7 pounds per square inch absolute pressure (HSC Section 25270.2 (g)).The facility must have a cumulative storage capacity greater than 1,320 gallons for all ASTs. NOT Subject to the Act (exemptions):
   An aboveground petroleum storage tank (AST) facility with one or more of the following (see HSC 25270.2 (k)) is not subject to this act and is exempt:
   - A pressure vessel or boiler which is subject to Division 5 of the Labor Code,
   - A storage tank containing hazardous waste if a hazardous waste facility permit has been issued for the storage tank by DTSC,
   - An aboveground oil production tank which is regulated by the Division of Oil and Gas,
   - Certain oil-filled electrical equipment including but not limited to transformers, circuit breakers, or capacitors.

9. HAZARDOUS WASTE GENERATOR - Check the appropriate box to indicate whether your facility generates hazardous waste. A generator is the person or business whose acts or processes produce a hazardous waste or who causes a hazardous substance or waste to become subject to State hazardous waste law. Hazardous waste means a waste that meets any of the criteria for the identification of a hazardous waste adopted by DTSC pursuant to HSC 25141. "Hazardous waste" includes, but is not limited to, federally regulated hazardous waste. Federal hazardous waste law is known as the Resource Conservation and Recovery Act (RCRA). Unless explicitly stated otherwise, the term "hazardous waste" also includes extremely hazardous waste and acutely hazardous waste.

10. RECYCLE - Check the appropriate box to indicate whether your facility recycles more than 100 kilograms per month of recyclable material under a claim that the material is excluded or exempt per HSC Section 25143.2. Check "YES" and complete the Recyclable Materials Report pages, if you either recycled onsite or recycled excluded recyclable materials which were generated offsite. Check "NO" if you only send recyclable materials to an offsite recycler. You do not need to report.

11. ONSITE HAZARDOUS WASTE TREATMENT - Check the appropriate box to indicate whether your facility engages in onsite treatment of hazardous waste. "Treatment" means any method, technique, or process which is designed to change the physical, chemical, or biological character or composition of any hazardous waste or any material contained therein, or removes or reduces its harmful properties or characteristics for any purpose. Please contact the HMD to determine if any exemptions apply to your facility. If your facility engages in onsite treatment of hazardous waste then complete the Onsite Hazardous Waste Treatment Notification - Facility page and one set of Onsite Hazardous Waste Treatment Notification - Unit pages with waste and treatment process information for each unit.

12. FINANCIAL ASSURANCE - Check the appropriate box to indicate whether your facility is subject to financial assurance requirements for closure of an onsite treatment unit. Unless they are exempt, Permit by Rule (PBR) and Conditionally Authorized (CA) operations are required to provide financial assurance for closure costs (per 22 CCR Section 67450.13 (b) and HSC Section 25245.4). If your facility is subject to financial assurance requirements or claiming an exemption, then complete the Certification of Financial Assurance page.

13. REMOTE WASTE CONSOLIDATION SITE - Check the appropriate box to indicate whether your facility consolidates hazardous waste generated at a remote site. Answer "YES" if you are a hazardous waste generator that collects hazardous waste initially at remote sites and subsequently transports the hazardous waste to a consolidation site you also operate. You must be eligible pursuant to the conditions in HSC Section 25110.10. If your facility consolidates hazardous waste generated at a remote site, then complete the Remote Waste Consolidation Site Annual Notification page.

14. HAZARDOUS WASTE TANK CLOSURE - Check the appropriate box to indicate whether the tank being closed would be classified as hazardous waste after its contents are removed. Classification could be based on:
   –Your knowledge of the tank and its contents
   –The mixture rule
   –Testing of the tank
   –The listed wastes in 40 CFR 261.31 or 40 CFR 261.32.
   –Inability to remove hazardous materials stored in the tank.
   If the tank being closed would be classified as hazardous waste after its contents are removed, then you must complete the Hazardous Waste Tank Closure Certification page.

14a. RCRA LQG - Check the appropriate box to indicate whether your facility is a Large Quantity Generator. If YES, you must have or obtain a US EPA ID Number.

14b. HOUSEHOLD HAZARDOUS WASTE COLLECTION - Check the appropriate box to indicate whether your facility is a HHW Collection site.

15. LOCAL REQUIREMENTS - If you generate Medical Waste you are required to obtain a Health Permit and submit a Biomedical Waste Management Plan. In addition to this, if you generate ≥200 lbs on medical waste per month and treat any amount of medical waste on site you may be required to apply for a medical waste treatment permit with the HMD TOXIC GASES: If you handle toxic gases with threshold limit concentration (TLV) ≤10 ppm in any quantity, you are required to obtain a Health Permit and submit an HMD Hazardous Materials Business Plan.

UPF Permit#: 211670

DATE INSPECTED: 1 / 8 / 09

UNIFIED PROGRAM FACILITY PERMIT APPLICATION

ENTERED JAN 28 2010

☒ This business or service is required to obtain a Unified Program Facility Permit from the San Diego County Department of Environmental Health. I answered "yes" to one or more of the questions on the "Business Activities" form.

Date assumed business ownership at this location: 06 / 01 / 89

This permit does not excuse any owner or operator from complying with all applicable federal, state, county or local laws, ordinances or regulations. The owner or operator is required to determine if another permit or approval from any other agency or department is necessary. The County, by issuing this permit, does not relinquish its right to enforce any violation of law.

☐ I have determined that this business or service does not require a Unified Program Facility Permit from the San Diego County Department of Environmental Health.

I declare under penalty of perjury that to the best of my knowledge and belief the statements made herein are correct and true. I consent to all necessary inspections allowed by law and incidental to the issuance of required permit(s) and the operation of this business.

Signature: J Martinez

Title: Owner

Printed Name: Jesus Martinez

Date: 01 / 08 / 2010

Type of Business: Agriculture

Phone #: (619) 666-3837

Please complete the business information on the following page and return this application to the San Diego County Department of Environmental Health at:

SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261
SAN DIEGO CA 92112-9261

If a San Diego County Unified Program Facility Permit is required for your business or service a representative of this Department will contact your business. Permit fees will be determined from the contact and a billing statement will be mailed.

NOTE: If you do not use hazardous materials, generate hazardous waste, or have underground storage tanks you are still required to return this form.

A representative of the San Diego County Department of Environmental Health may contact you to verify the information provided on this application.

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

ENTERED JAN 2 8 2010

BUSINESS OWNER/OPERATOR IDENTIFICATION

Page ____ of ____

I. IDENTIFICATION

FACILITY ID # 3 7 0 0 0 2 1 1 6 7 0 1	BEGINNING DATE 100 / /	ENDING DATE 101 / /	
BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3: Martinez Ranch	BUSINESS PHONE 102: (619) 666-3837		
BUSINESS SITE ADDRESS 103: 2160 Cactus Rd	BUSINESS FAX 102a: (619) 661-0221		
BUSINESS SITE CITY 104: San Diego	CA	ZIP CODE 105: 92154	COUNTY 108: S.D.
DUN & BRADSTREET 106:	PRIMARY SIC 107:	PRIMARY NAICS 107a:	
BUSINESS MAILING ADDRESS 108a: Same			
BUSINESS MAILING CITY 108b: Same	STATE 108c:	ZIP CODE 108d:	
BUSINESS OPERATOR NAME 109: Agustin & Jesus Martinez	BUSINESS OPERATOR PHONE 110: (619) 666-3837		

II. BUSINESS OWNER

OWNER NAME 111: Agustin Martinez / Jesus Martinez	OWNER PHONE 112: (619) 666-3837	
OWNER MAILING ADDRESS 113: 2160 Cactus Rd		
CITY 114: San Diego	STATE 115: CA	ZIP CODE 116: 92154

III. ENVIRONMENTAL CONTACT

CONTACT NAME 117: Jesse Martinez	CONTACT PHONE 118: (619) 666-3837	
CONTACT MAILING ADDRESS 119: 2160 Cactus Rd.	CONTACT EMAIL* 119a:	
CITY 120: San Diego	STATE 121: CA	ZIP CODE 122: 92154

IV. EMERGENCY CONTACTS

–PRIMARY–	–SECONDARY–
NAME 123: Jesus Martinez	NAME 128: Agustin Martinez
TITLE 124: Owner	TITLE 129: Owner
BUSINESS PHONE 125: (619) 666-3837	BUSINESS PHONE 130: (619) 661-6046
24-HOUR PHONE* 126: ( )	24-HOUR PHONE* 131: ( )
PAGER # 127: ( )	PAGER # 132: ( )
ADDITIONAL LOCALLY COLLECTED INFORMATION:	
E-MAIL: *	E-MAIL: *

*This information will remain confidential.

ALWAYS SUBMIT A COPY OF THIS COMPLETED PAGE WITH SUBMITTAL OF ANY OTHER UNIFIED PROGRAM CONSOLIDATED FORM.

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE 134: 01/08/2010	NAME OF DOCUMENT PREPARER 135: Jesus Martinez
NAME OF SIGNER (print) 136: Jesus Martinez	TITLE OF SIGNER 137: Owner	

Business Owner/Operator Identification

Please submit the Business Activities page, the Business Owner/Operator Identification page, and Hazardous Materials - Chemical Description pages for all hazardous materials inventory submissions. For the inventory to be considered complete this page must be signed by the appropriate individual. (Note: the numbering of the instructions follows the data element numbers that are on the Unified Program Consolidated Form (UPCF) pages. These data element numbers are used for electronic submission and are the same as the numbering used in Division 3, Electronic Submittal of Information.) Please number all pages of your submittal. This helps your CUPA or AA identify whether the submittal is complete and if any pages are separated.

ALWAYS SUBMIT A COPY OF THIS COMPLETED PAGE WITH SUBMITTAL OF ANY OTHER UNIFIED PROGRAM CONSOLIDATED FORM.

1. FACILITY ID NUMBER - Enter your 6 character Permit # on your Unified Program Facility Permit (UPFP). If you do not have a Unified Program Facility Permit, leave this blank.
3. BUSINESS NAME - Enter the full legal name of the business. This is the same as the terms "Facility Name" or "DBA" - Doing Business As.
100. BEGINNING DATE - Enter the beginning year and date (YYYYMMDD) of the inventory report, recyclable materials report, or on-site tiered permitting report for PBR sites.
101. ENDING DATE - Enter the ending year and date (YYYYMMDD) of the reports identified in #100.
102. BUSINESS PHONE - Enter the phone number, area code first, and any extension.
102a. BUSINESS FAX – Enter the business fax number, area code first.
103. BUSINESS SITE ADDRESS - Enter the street address where the facility is located. No post office box numbers are allowed. This information must provide a means to geographically locate the facility. If the mailing address is different, complete #108a- #108d.
104. CITY - Enter the city or unincorporated area in which business site is located.
105. ZIP CODE - Enter the zip code of business site. The zip + 4 may also be added.
106. DUN & BRADSTREET - Enter the Dun & Bradstreet number for the facility. If you do not have one, leave this field blank.
107. PRIMARY SIC NUMBER - Enter the primary Standard Industrial Classification system number for primary business activity. Required for EPCRA. NOTE: If code is more than 4 digits, report only the first four.
107a. PRIMARY NAICS NUMBER - Enter the primary North American Industrial Classification System number.
108. COUNTY - Enter the county in which the business site is located.
108a. BUSINESS MAILING ADDRESS – Enter the mailing address to be used for all official business correspondence. This mailing address must be filled in.
108b. BUSINESS MAILING CITY - Enter the name of the city for the business mailing address.
108c. STATE - Enter the two character abbreviation of the state for the business mailing address.
108d. ZIP CODE - Enter the zip code for the business mailing address. The zip + 4 may also be added.
109. BUSINESS OPERATOR NAME - Enter the name of the business operator which is the name used for mailing correspondence.
110. BUSINESS OPERATOR PHONE - Enter business operator phone number, if different from business phone, area code first, and any extension.
111. BUSINESS OWNER NAME - Enter name of business owner, if different from business operator.
112. BUSINESS OWNER PHONE - Enter the business owner's phone number if different from business phone, area code first, and any extension.
113. BUSINESS OWNER MAILING ADDRESS - Enter the owner's mailing address where business related correspondence should be sent, if different from business site address.
114. BUSINESS OWNER CITY - Enter the name of the city for the owner's mailing address.
115. BUSINESS OWNER STATE - Enter the 2 character state abbreviation for the owner's mailing address.
116. BUSINESS OWNER ZIP CODE - Enter the zip code for the owner's address. The zip + 4 may also be added.
117. ENVIRONMENTAL CONTACT NAME - Enter the name of the person who receives all environmental correspondence.
118. CONTACT PHONE - Enter the phone number at which the environmental contact area code first, and any extension.
119. CONTACT MAILING ADDRESS - Enter the mailing address where all environmental contact correspondence should be sent.
119a. CONTACT EMAIL – Enter the email address of the environmental contact in 117, if the contact has one.
120. CONTACT MAILING CITY - Enter the name of the city for the environmental contact's mailing address.
121. STATE - Enter the 2 character state abbreviation for the environmental contact's mailing address.
122. ZIP CODE - Enter the zip code for the environmental contact's mailing address. The zip + 4 may also be added.
123. PRIMARY EMERGENCY CONTACT NAME - Enter the name of a representative that can be contacted in case of an emergency involving hazardous materials at the business site. The contact shall have FULL facility access, site familiarity, and authority to make decisions for the business regarding incident mitigation.
124. TITLE - Enter the title of the primary emergency contact.
125. BUSINESS PHONE - Enter the business number for the primary emergency contact, area code first, and any extension.
126. 24-HOUR PHONE - Enter a 24-hour phone number for the primary emergency contact. The 24-hour phone number must be one which is answered 24 hours a day. If it is not the contact's home phone number, then the service answering the phone must be able to immediately contact the individual stated above.
127. PAGER NUMBER - Enter the pager number for the primary emergency contact, if available.
128. SECONDARY EMERGENCY CONTACT NAME - Enter the name of a secondary representative that can be contacted in the event that the primary emergency contact is not available. The contact shall have FULL facility access, site familiarity, and authority to make decisions for the business regarding incident mitigation.
129. TITLE - Enter the title of the secondary emergency contact.
130. BUSINESS PHONE - Enter the business telephone number for the secondary emergency contact, area code first, and any extension.
131. 24-HOUR PHONE - Enter a 24-hour phone number for the secondary emergency contact. The 24-hour phone number must be one that is answered 24 hours a day If it is not the contact's home phone number, then the service answering the phone must be able to immediately contact the individual stated above.
132. PAGER NUMBER - Enter the pager number for the secondary emergency contact, if available.
133. ADDITIONAL LOCALLY COLLECTED INFORMATION - This space may be used for CUPAs or AAs to collect any additional information necessary to meet the requirements of their individual programs. Contact your local agency for guidance.
134. DATE - Enter the date that the document was signed. (YYYYMMDD)
135. NAME OF DOCUMENT PREPARER - Enter the full name of the person who prepared the inventory submittal information.
136. NAME OF SIGNER - Enter the full printed name of the person signing the page. The signer certifies to a familiarity with the information submitted and that based on the signer's inquiry of those individuals responsible for obtaining the information, all the information submitted is true, accurate and complete.

SIGNATURE OF OWNER/ OPERATOR OR DESIGNATED REPRESENTATIVE - The Business Owner/Operator, or officially designated representative of the Owner/Operator, shall sign in the space provided. This signature certifies that the signer is familiar with the information submitted and that based on the signer's inquiry of those individuals responsible for obtaining the information it is the Signer's belief that the submitted information is true, accurate and complete.

137. TITLE OF SIGNER - Enter the title of the person signing the page.

COUNTY OF SAN DIEGO

CORRECTIVE ACTION FORM TO DOCUMENT RETURN TO COMPLIANCE

RECEIVED FEB 08 2010 ENVIRONMENTAL HEALTH

PERMIT #: 211670
SPECIALIST: Fuentecilla
INSPECTION DATE: 1/8/10
CONTACT: J. Martinez

BUSINESS NAME Martinez Ranch

ADDRESS 2160 Cactus Rd CITY San Diego ZIP 92154

VIOL #	DATE CORRECTED	INDICATE HOW VIOLATIONS WERE CORRECTED (ATTACH ANY SUPPORTING DOCUMENTATION TO THIS FORM)
1	01/09/10	Diesel Filter was cleaned and properly
2	/ /	tightened to prevent further leaks.
3	/ /	daily inspections confirm no leaks.
4	01/09/10	drip pans have also been employed.
II	01/20/10	waste oil has been labled accordingly
	01/20/10	used oil filters have been labeled accordingly
7	01/10/10	contaminated soil has been collected & labeled
8	01/20/10	contaminated rags have been labeled accordingly
2	01/08/10	UPF permit application completed during inspection
3	01/13/10	EPA I.D. application Submitted 01-13-10

I certify under penalty of law that this business/site has corrected all violations marked on the Compliance Inspection Report/Notice of Violation. I have personally examined and am familiar with the information submitted and believe the information is true, accurate and complete. I am authorized to file this certification for the business/site, and am aware that there are significant penalties for submitting false information.

Responsible Party: Jesus Martinez (Print Name) **Job Title** owner

Signature of Responsible Party: [signature] **Date:** 01/25/10

< Send completed form and supporting documentation to the address listed below >

COUNTY OF SAN DIEGO USE ONLY: **Reviewed by:** Fuentecilla **Date:** 2/19/10
(Specialist's name and date required for processing)

Specialist's comments: PHOTOS reviewed.

☑ **All violations noted on date listed above were corrected.**

☑ Based on information provided by the business
☐ Based on field verification by Specialist

☑ **RTC entered in Kiva by Specialist on:** 2/19/10 ☐ **RTC entered in Kiva by Clerical on:** / /

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
http://www.sdcdeh.org//hmd 619-338-2222; 1-800-253-9933; Fax 619-338-2377

COUNTY OF SAN DIEGO

CORRECTIVE ACTION FORM TO DOCUMENT RETURN TO COMPLIANCE

PERMIT #: 211670
SPECIALIST: Fuentes
INSPECTION DATE: 1/8/10
CONTACT: _____

BUSINESS NAME Martinez Ranch
ADDRESS 2160 Cactus Rd. CITY San Diego ZIP 92154

VIOL #	DATE CORRECTED	INDICATE HOW VIOLATIONS WERE CORRECTED (ATTACH ANY SUPPORTING DOCUMENTATION TO THIS FORM)
4	01/21/10	Empty drums labeled accordingly
	01/21/10	Asbury Environmental Services is
	__/__/__	chosen for disposal service
	__/__/__	9119 Birch St. Spring Valley 91977
5	__/__/__	Employees will be trained on yearly basis
6	__/__/__	
7	__/__/__	Completed Return To Compliance
8	__/__/__	accompanied by supporting photos.
9	__/__/__	
10	__/__/__	

I certify under penalty of law that this business/site has corrected all violations marked on the Compliance Inspection Report/Notice of Violation. I have personally examined and am familiar with the information submitted and believe the information is true, accurate and complete. I am authorized to file this certification for the business/site, and am aware that there are significant penalties for submitting false information.

Responsible Party: Jesus Martinez (Print Name) **Job Title** owner

Signature of Responsible Party: [signature] **Date:** 01/25/10

< Send completed form and supporting documentation to the address listed below >

COUNTY OF SAN DIEGO USE ONLY: **Reviewed by:** [signature] (Specialist's name and date required for processing) **Date:** 2/19/10

Specialist's comments: _____

☑ All violations noted on date listed above were corrected.

☑ Based on information provided by the business
☐ Based on field verification by Specialist

☑ RTC entered in Kiva by Specialist on: 2/19/10 ☐ RTC entered in Kiva by Clerical on: __/__/__

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
http://www.sdcdeh.org//hmd 619-338-2222; 1-800-253-9933; Fax 619-338-2377

File 211670

State of California – California Environmental Protection Agency

Reset Form

Print

Department of Toxic Substances Control - GISS
P.O. Box 806, Sacramento, CA 95812-0806

CALIFORNIA HAZARDOUS WASTE PERMANENT ID NUMBER APPLICATION

Please type or neatly print in ink. Please review the line-by-line instructions carefully.
To check on the status of your request, go to www.hwts.dtsc.ca.gov and click on Reports.

NEW NUMBER REQUESTS Check all that apply. *(See instructions.)*

☑ 1. I am applying for a **new** permanent California ID number as a hazardous waste: ☑ Generator ☐ Transporter

Reason for new number: A. ☑ Never had a number B. ☐ Business moved C. ☐ Legal owner of business changed

If your business generates greater than 100 kg of RCRA hazardous waste per month, contact US EPA for a federal ID number.

CHANGES TO STATUS OR INFORMATION FOR AN EXISTING ID NUMBER *(See instructions.)*

For existing ID number: C A

☐ 2. I am updating the mailing address and/or contact information only.

☐ 3. I am inactivating this ID Number.

☐ 4. I am reactivating this ID Number.

☐ 5. I am changing the business name only, no ownership change.

6. Site/Facility/Business Name (Include DBA): MARTINEZ RANCH *(See instructions.)*

7. Site Location: 2160 CACTUS RD.
Street
SAN DIEGO | CA | 92154 | SAN DIEGO
City | State | Zip | County

8. (a) Federal Employer ID Number 33-0894745 Board of Equalization Fee Account Number
((b) is only required from generators of greater than 5 tons per calendar year.)

9. Mailing Address: 2160 CACTUS RD *(See instructions.)*
Street
SAN DIEGO | CA | 92154
City | State | Zip

10. Site Contact Person: JESSE MARTINEZ *(See instructions.)*
First Name | Last Name

Contact Person Address: 4762 SEA TERN CT.
Street
SAN DIEGO | CA | 92154
City | State | Zip

Contact Person Phone Number: (619) 666-3837 Fax Number: (619) 661-0221
Area Code Phone Number Area Code Fax Number

Contact Person Business Email Address: martinezranch@aol.com Preferred Primary Communication: ☐ Mail ☑ Email

11. Legal Business Owner (not property owner): JESUS MARTINEZ *(See instructions.)*
Name

Owner Address: 4762 SEA TERN CT. SAN DIEGO CA 92154
Street City State Zip

Owner Phone Number: (619) 666-3837 Fax Number: (619) 661-0221
Area Code Phone Number Area Code Fax Number

12. Standard Industrial Classification (SIC) Code for the Site: 0 1 9 1 (4-Digit Number) *(See instructions.)*

13. Certification: *I certify under penalty of law that the information on this document was prepared to the best of my knowledge and belief to be, true, accurate and complete.*

SIGNATURE [signature] DATE 01/13/2010

NAME (print) JESUS MARTINEZ TITLE owner PHONE 619·666·3837

DTSC Form 1358 (6/08)

FILE COPY

211670

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
REQUEST FOR SERVICE WORKSHEET

RFS#	**10-0058595**
DATE REC:	**07-JAN-2010**
REC BY:	**CCOURSOL**
INSPECTOR:	**CFUENTEC**

REQUESTOR

This grayed area contains Reporting Party information that is blocked from public viewing for CONFIDENTIALITY purposes, per County Policy A-2.

EVENT LOCATION

APN: **646-100-20-00** *MUNI:* **SD** *CENSUS TRACT:* **100.15**

PERMIT: **HK18 211670** *NAME:* **MARTINEZ RANCH**

ADDRESS: **2160 CACTUS San Diego 92154**

INTERSECTION: **AIRWAY RD at TB-1351-D3**

COMMON PLACE:

OTHER LOCATION: **GASOLINE STORAGE, HW**

X-COORD: *Y-COORD:*

DESCRIPTION OF PROBLEM(S)

INCIDENT DATE: **18-DEC-2009**

PROBLEM(S): **6H21 - OTHER**

NATURE OF COMPLAINT:

DATE: **07-JAN-2010** *BY:* **CCOURSOL**

It appears that this might be subject to APSA , hazmat inventory and hazwaste inspection.
It appears that hazardous waste is generated at this facility. Since they only have an Ag permit, we (HMD) need to go out there and check this out as a potential new business. As far as the APSA goes, don't forget that the Ag sites do have certain exemptions (see below reference). However, we should still verify this.
Attached are a couple photos of the observed hazmat issues at Martinez Ranch. Our biggest concern was the gasoline storage area - the first and second photos show the tanks and you can see the area beneath the tanks where there has been some spillage. The last two photos are other hazmat areas on site where we also noticed issues.

SITE HISTORY

Previous RFS on this permit:	*Most recent:* **NONE**	*Date:*	*Status:*	*Additional RFS:* **0**
FLAGS on this permit:	*Most recent:* **NONE**	*Date:*	*Status:*	*Additional Flags:* **0**

RESPONSE INFORMATION

ACTION TAKEN:

Action Service	*Service Description*	*Service Employee*	*Completed by*	*Date Completed*
6-INVEST	**INVESTIGATED BY**		**CFUENTEC**	**08-JAN-2010**

1/8/10 - Investigation revealed a farm handling hazardous materials and generating hazardous waste. Observed small leak from the diesel dispensing hose. Owner made the repair to stop the leak.
UPF Permit application completed for Hazardous Waste generated on site.

6H-RESOLVE	**HMD INVESTIGATION COMPLETE**	**Y OR N**	**CFUENTEC**	**08-JAN-2010**

Resolved

6-CLOSED	**COMPLAINT CLOSED BY**		**CCOURSOL**	**11-JAN-2010**

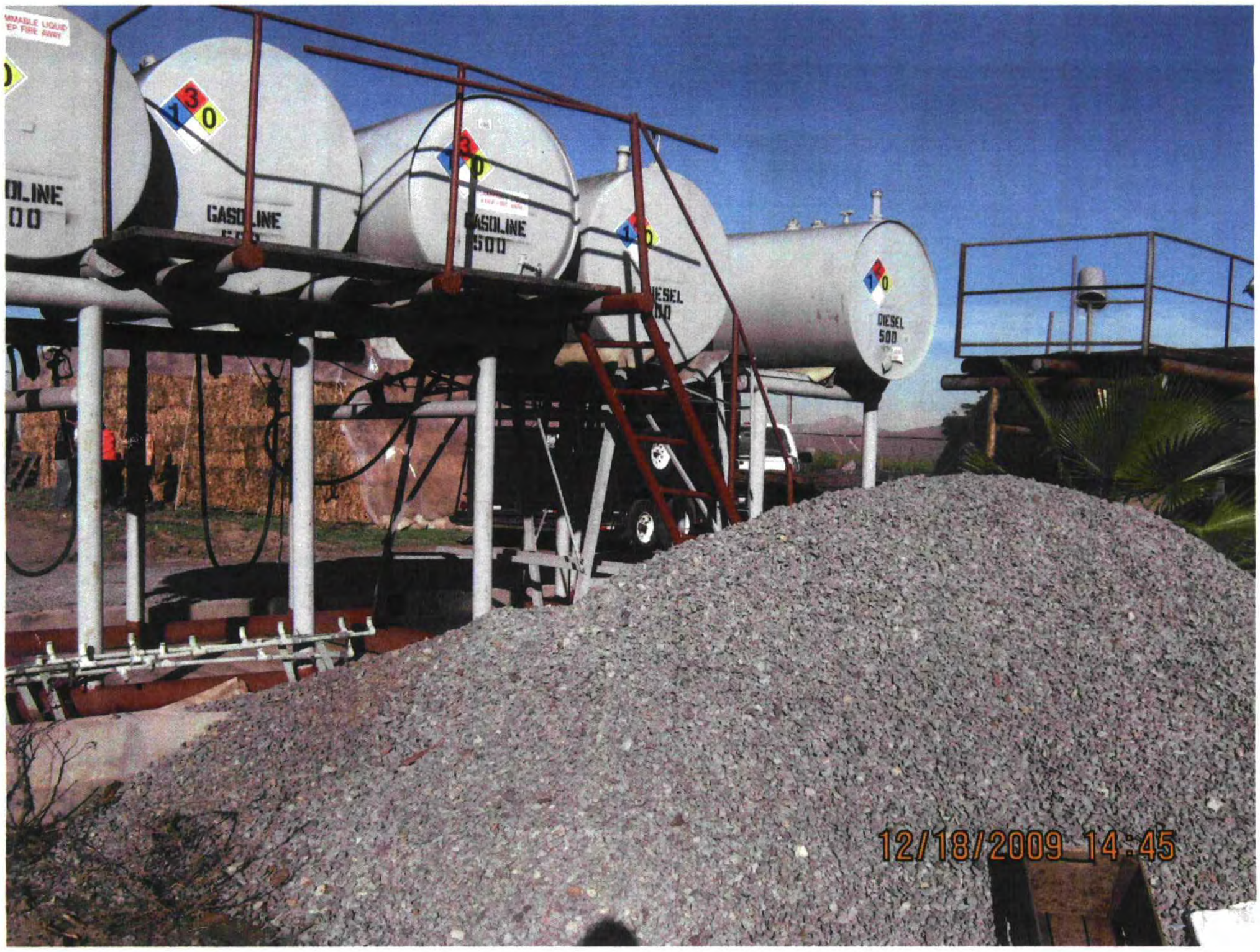
Copy sent to file.

INVESTIGATOR SIGNATURE

PERMIT 211670

Martinez Ranch
2160 Cactus Rd, SD 92154

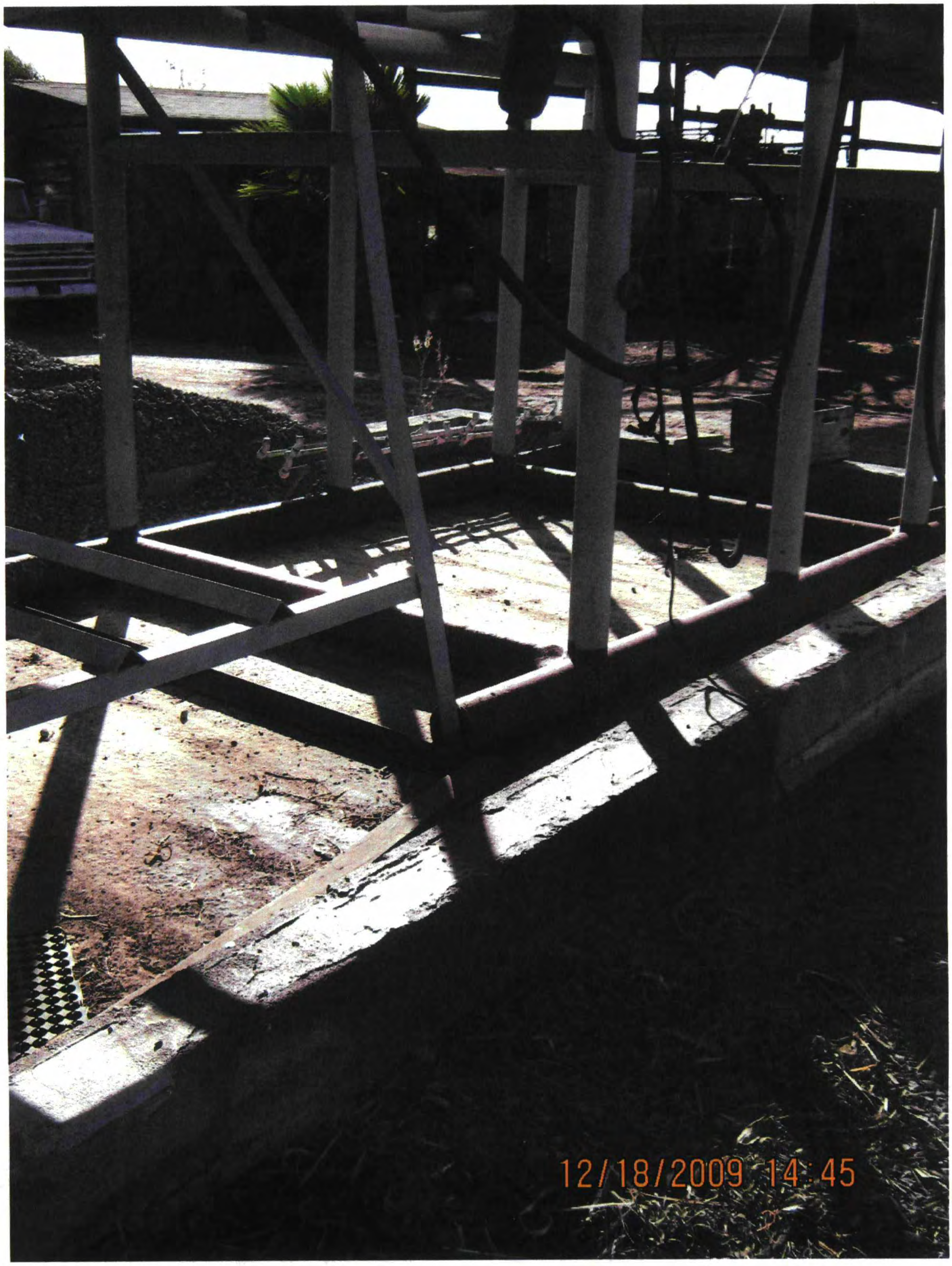
RFS 10-0058595
1/7/2010



PERMIT 211670

Martinez Ranch
2160 Cactus Rd, SD 92154

RFS 10-0058595
1/7/2010



Appendix G
San Diego Regional Water Quality Control Board Records

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

California Regional Water Quality Control Board, San Diego Region

April 9, 2013

Certified Mail – Return Receipt Requested
Article Number: 7011 0470 0002 8961 7975

In reply refer to: 792205:Melbourn

Mr. Richard Martinez
Martinez Farms, Inc.
2440 Cactus Road
San Diego, California 92154-8007

Notice of Violation No. R9-2013-0060, Discharge of Waste Without Waste Discharge Requirements or Waiver; Water Code Section 13267 Request for Information

Mr. Martinez:

This notice provides important information regarding discharges of wastewater and storm water from your agricultural operations.

As part of our efforts to protect water quality, the California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) adopted Conditional Waiver No. 4 for Discharges from Agricultural and Nursery Operations (Conditional Waiver No. 4) on October 10, 2007 (Resolution No. R9-2007-0104), pursuant to Water Code section 13269. Conditional Waiver No. 4 requires all agricultural and nursery growing operations to submit a Notice of Intent (NOI) to enroll under Conditional Waiver No. 4, participate in either an individual or group monitoring program, and implement necessary Best Management Practices (BMPs) to minimize or eliminate the discharge of pollutants. The deadline for enrollment was January 1, 2011. The deadline for submitting monitoring and reporting plans was January 1, 2012. For more information about Conditional Waiver No. 4, please visit the San Diego Water Board's website at: http://www.waterboards.ca.gov/rwqcb9/board_decisions/waivers/index.shtml. Operators who do not enroll under Conditional Waiver No. 4 must apply for individual waste discharge requirements (WDRs) by submitting a Report of Waste Discharge (ROWD) as required by Water Code section 13260(a)(1).

The San Diego Water Board inspected your facility on January 23, 2013. The inspector observed and documented the following:

1. Discharges of storm water runoff;
2. Application of amendments or mulches to soil;
3. Discharges of agricultural or nursery irrigation return water; and
4. Implementation of Best Management Practices (including staff training).

Furthermore, your facility representative indicated that the facility was not enrolled in a monitoring group and had not filed an individual NOI with the San Diego Water Board, so the operation is not currently covered by Conditional Waiver No. 4 or WDRs. Pursuant to Water Code section 13260, you are required to submit either an NOI to comply with Conditional Wavier No. 4 or a ROWD for individual WDRs for your irrigated agricultural lands. Our records confirm that you have not submitted an NOI to comply with Conditional Waiver No. 4, nor have you submitted a ROWD for individual WDRs. You are therefore in violation of Water Code section 13260(a)(1) and subject to further enforcement.

You are hereby directed to immediately submit a Notice of Intent to comply with Conditional Waiver No. 4, or a Report of Waste Discharge for individual Waste Discharge Requirements.

Water Code section 13261 provides that a person who fails to furnish a report required under Water Code section 13260 when so requested by the San Diego Water Board may be liable in an amount up to one thousand dollars ($1,000) for each day in which the violation occurs. In addition, Water Code section 13350 states that any person who violates a waiver condition shall be liable civilly, and penalties may be imposed by the San Diego Water Board either on a daily or on a per gallon basis, with a potential liability of five thousand ($5,000) for each day the violation occurs. These civil liabilities may be assessed by the San Diego Water Board for failure to comply, beginning with the date that the violations first occurred, and without further warning.

In addition, pursuant to Water Code section 13267(b)(1), please provide a written response by April 22, 2013, that contains the following: a detailed description of your operations (i.e., type of plants grown, approximate number and manner of propagation, names and amounts of pesticides applied, and names and amounts of fertilizer applied) and date of operation; a description of water quality training and dates that you and your staff have attended over the last three years; a facility map showing the location of BMPs; any correspondence, inspections or documents you have received concerning water quality and agricultural activities; and any water quality sampling results over the last three years. There is no need to duplicate the information provided and included in the attached inspection report. The required written response shall be signed and certified by an official of Martinez Farms, Inc. with the following certification statement.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

The written response shall be submitted to the following address:

Frank Melbourn
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340

The San Diego Water Board needs the requested information to assess the potential for water quality impacts by contaminated storm water from your facility. Based on the nature and possible consequences of any discharge(s), the burden, including the cost of submitting this information bears a reasonable relationship to the need for the information and the benefits to be obtained. Water Code section 13268 provides that any person failing to provide information requested by the San Diego Water Board pursuant to section 13267 may be subject to administrative civil liability of up to one thousand dollars ($1,000) for each day in which the violation occurs.

The San Diego Water Board reserves the right to take any enforcement action authorized by law. This includes penalties for discharging without submitting an NOI or obtaining permit coverage in addition to failure to provide requested information. In making the determination of whether and how to proceed with further enforcement action, the San Diego Water Board will consider the severity and effect of the violation; the level of cooperation; the time it takes to correct the identified violations; and the sufficiency of the corrections.

In the subject line of any response, please include the reference number and name. For questions or comments, please contact Frank Melbourn by telephone at (858) 467-2973, or by email at fmelbourn@waterboards.ca.gov.

Respectfully,

JEREMY C. HAAS
Environmental Program Manager
Water Quality Restoration and Standards Branch

JCH:cmc:ftm

Enclosure: January 24, 2013, Inspection Report

cc: Eric Larson, San Diego Farm Bureau, eric@sdfarmbureau.org
Roger Mitchell, San Diego Water Board, rmitchell@waterboards.ca.gov
James Smith, San Diego Water Board, jsmith@waterboards.ca.gov

Tech Staff Info & Use	
Party (GT/CIWQS) ID	539184
Reg. Measure ID	389625
Place ID	792205 / 766892
Person ID	538972
Inspection ID	11610670

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

California Regional Water Quality Control Board, San Diego Region

DRAFT
Inspection Checklist for Compliance with Conditional Waiver of Waste Discharge Requirements for Discharges at Agricultural and Nursery Operations

Staff Contact: Roger Mitchell • rmitchell@waterboards.ca.gov • (858)467-2724

1. Agricultural/Nursery Operation Information

Name:	MARTINEZ FARMS INC		
Address:	2440 CACTUS RD		
City:	SAN DIEGO	County: CA	Zip Code: 92154
Contact Person:	RUBEN JIMENEZ	Telephone No.:	(619) 666-5272

2. Facility Owner:

Name:	RICHARD MARTINEZ		
Address:	2440 CACTUS RD		
City:	SAN DIEGO	County: CA	Zip Code: 92154
Contact Person:	RICHARD MARTINEZ	Telephone No.:	(619) 661-6571

3. Facility Operator (If different than the owner):

Name:			
Address:	N/A		
City:		County:	Zip Code:
Contact Person:		Telephone No.:	( )

4. Monitoring Group Affiliation (*Section 4.I.B.7*)

- ☐ Boyer Ranch Monitoring Group
- ☐ Hines Nursery Monitoring Group
- ☐ San Diego Region Irrigated Lands Group
- ☐ San Mateo Irrigated Land Group
- ☐ Upper Santa Margarita Irrigated Lands Group
- ☒ Individual Monitoring No monitoring, uses city water.

9174 Sky Park Court, Suite 100, San Diego, CA 92123-4339 | (858) 467-2952 | www.waterboards.ca.gov/sandiego

RECYCLED PAPER

(M)

5. Management Measures (MMs)/Best Management Practices (BMPs) (*Section 4.I.A.2*)

Are MMs and/or BMPs being implemented to effectively minimized or eliminate the discharge of pollutants to surface water/ground water see below note.	☐ Yes ☐ No

Briefly describe the MMs/BMPs being implemented: All fertilizer + peat moss are stored in covered area. A fiber roll is seen surrounding a pile of bark and another fiber roll is surrounded a dumpster. No erosion is seen. Slopes are vegetated and irrigated.

6. Education Requirements (*Section 4.I.B.1*)

Can the operator provide proof of attending at least 2-hours of water quality management related training?	☐ Yes ☒ No[1]

Briefly described the training attended: _____

Can the operator provide proof (i.e., newsletters, NRCS conservation plan, UCCE self-assessment) of regular contact with the local Farm Bureau, UCCE, NRCS, and/or regional RCDs to discuss latest MMs/BMPs and other water quality issues?	☐ Yes ☒ No[1]

7. Record Requirements (*Section 4.I.B.5*)

Are water quality management records being maintained		
Site map with location of MMs/BMPs, nearby surface waters and/or water wells.	☐ Y	☒ N
List of hazardous materials kept onsite.	☒ Y	☐ N
Location/amount of waste material generated and composted/resued on site or disposed of offsite.	☒ Y	☐ N
Pesticide use report.	☒ Y	☐ N
Fertilizer, soil amendment, and mulch use records.	☒ Y	☐ N
Irrigation management records.	☒ Y	☐ N
Equipment maintenance records. (Contract out)	☐ Y	☒ N
List of MM/BMPs. Inspected by city of SD contractor	☒ Y	☐ N
Owner, operator, and employee education/training records.	☒ Y	☐ N
Inspection Reports. by City of SD (2/years)	☒ Y	☐ N
Annual self assessment.	☒ Y	☐ N
Copies of permits, licenses, and certifications required to operate.	☒ Y	☐ N
Water quality monitoring data (if any). use city water.	☐ Y	☒ N

Date and Time of Inspection: 1/23/13 at 9.00AM

Inspector: Dat Quach

[1] Agricultural and nursery operators who do not have proof available during inspection must submit proof to the San Diego Water Quality Control Board within 45-days from the date of inspection

9174 Sky Park Court, Suite 100, San Diego, CA 92123-4353 | (858) 467-2952 | www.waterboards.ca.gov/sandiego

Recycled Paper

Subject: Martinez Farms

From: Kline Swonger (kswonger@dmaxinc.com)

To: rubenjimenez78@yahoo.com;

Cc: akubischta@dmaxinc.com;

Date: Wednesday, December 5, 2012 9:52 AM

Hi Ruben,

Thank you for your response. I have received sufficient documentation that all major areas of concern have been corrected at your business for both the 7150 Siempre Viva Road and 2440 Cactus Road sites. I have updated your file with this information, and you will receive an updated report in the mail that lists the original corrective actions and the resolution status of each. Any corrective actions that remain unresolved have been identified as lower priority and should be addressed through routine maintenance and BMP implementation at your facility. Your follow-up priority has been lowered, and your site will be re-evaluated at your next routine inspection. No further compliance documentation is required to be sent in for this case. Thank you for your efforts to achieve storm water compliance. If you have any further questions, please do not hesitate to contact me.

Thanks,

Kline Swonger | D-MAX Engineering, Inc.

7220 Trade Street | Suite 119 | San Diego, California 92121

Phone: 858.586.6600 ext 18 | Fax: 858.586.6644 | Email: kswonger@dmaxinc.com

Storm Water Hazardous Material Inventory

Hazardous Substance	Approx. Amount Kept On Site	Location of Material	Age of Container	Physical State (solid, liquid, gas)	Container Sealed? (Y/N)	MSDS On Site? (Y/N)
Peters Profesional 20-20-20	500LBS	Martinez Farms NORTH WEST	New bags	Solid	Y	Y
Peters Cal-Mag	500LBS	" " NORTHWEST	NEW BAGS	SOLID	Y	Y
Peters 15-15-15	500LBS	" " NORTHWEST	NEW BAGS	SOLID	Y	Y

Helpful Contacts

Call 9-1-1 in an emergency

San Diego Department of Environmental Health Spill Reporting Information: http://www.sdcounty.ca.gov/deh/hazmat/spill_release.html

San Diego Fire Department (non-emergency): (619) 543-4900

Note:
The above is a very brief hazardous materials inventory intended for general use. There are other environmental agencies and regulations that may require a more detailed hazardous material inventory depending on the materials stored on site and the type of business. This document likely is not detailed enough to meet hazardous material requirements. This document is not intended to be a substitute for any other requirements but when completed meets the City's storm water requirement of a hazardous material inventory.

Storm Water Training Log

Business Name MARTINEZ FARMS

Address 2440 CACTUS RD SAN DIEGO CA 92154

Date	Training Topics	Number of Employees Trained
5-18-2011	USE DRIP PANS TO COLLECT LEAKS/SPILLS	5
11-22-2011	PROPER MANAGE PESTICIDE/FERTILIZER	5
12-8-2011	PROTECT TRASH AREAS FROM CONTACT	5
	WITH STORM WATER	
	2012	
11-30-12	PROTECT STORM DRAIN AREAS	8
	(BMPS) FOR BUSINESS	
12-3-12	DISCHARGE PROHIBITIONS	8
	& SPECIAL PROTECTIONS	

Sign-in sheet is required for each training. An example training sign-in sheet is provided below.

Name	Position	Signature
~~MIGUEL DLA MADRID~~	~~SUPERVISOR~~	~~M DLM~~
Ruben Jimenez	Supervisor	[illegible]
JUAN CARLOS CHAVEZ	Supervisor	[illegible]
RICHARD MARTINEZ	CEO	[illegible]
RAUL GONZALEZ	MECHANIC	RAUL GONZALEZ
KENNY AOKI	SUPERVISOR	[illegible]
MARIA LONA	SUPERVISOR	MARIA LONA
MANUEL SALINAS	GROWER	manuel Salinas
ERNESTO ALVARADO	GROWER ASSIT.	Ernesto Alvarado

City of San Diego - Storm Water Best Management Practices (BMPs) for Businesses

Proper Cleaning Techniques:
Regularly sweep paved (concrete) areas. When washing with water, mop rather than spray and dispose of dirty water to the sewer system. Avoid hosing down soiled areas or using high-pressure washers. If power washing is necessary, collect or direct the wash water to landscaped areas for infiltration or to the sewer system.

Proper Washing Techniques:
Wash kitchen floor mats and entry/exit door mats in a mop sink so that wash water is captured and directed to the sewer system, or use an industrial dishwashing machine. If washing mats outside, use a trigger nozzle and do so in a landscaped area only.

Proper Trash Containment:
Place garbage in proper dumpsters and bins. Keep trash bins closed/covered to prevent trash from blowing offsite. Sweep trash areas and check for leaks twice a week. Keep liquids out of dumpsters. Dispose of non-toxic liquids in the sewer system. Always separate trash and recycle using proper bins.

Proper Hazardous Material Use & Disposal:
Store hazardous materials in sealed areas (such as containers or closed storage) to prevent leaks or spills. Dispose using authorized collection services. Identify the proper way to dispose of hazardous waste by calling the County Department of Environmental Health at 619-338-2231. Hazardous waste includes unused paint, solvents, oils, furniture polish and pesticides.

When it rains or when excess water runs off landscaping and pavement onto our streets, it can flow into one of the City's storm drains. Many people believe these storm drains are part of the City's sewer system and anything that enters them is eventually treated. However, the storm drain system is NOT connected to the sewer system. Everything that washes into storm drains travels untreated to our creeks, rivers, bays, and ocean, polluting our beaches and harming fish and wildlife. You can help reduce pollution and improve water quality by using the following Best Management Practices (BMPs) as part of your business' daily clean up and maintenance routine.

Storm Water Spill Prevention Plan

Business Name MARTINEZ FARMS

Business Address 2440 CACTUS RD SAN DIEGO CA 92154

Business Telephone (619) 661-6571, 72, 73, 74

Emergency/Off Hours Contact Person RUBEN JIMENEZ **Telephone** (619) 666-5272

Spill Clean Up Plan

- Post this spill clean up plan
- Use response materials (rags, absorbent, etc.) to soak up liquid substances
- Clean up any used absorbent materials and dispose of properly
- If substance is hazardous waste, follow proper hazardous disposal procedures
- Do not hose down outside spills
- If rinsing area is necessary, collect the rinse water with mop, wet-vacuum, or similar and dispose of it in a sanitary sewer drain (i.e. sink)
- Train employees to adequately respond to spills and leaks
- Maintain caution and common sense in responding to spills to prevent personal injury
- Designate employee(s) to monitor spill clean-up: _____

Spill Response Kit Materials and Locations

Potential Spill	Spill Response Kit Material	Spill Response Kit Location
Example: Fluid leaks from trucks	*40 gallons absorbent, oil absorbing socks*	*Loading Dock*
Example: Cleaning products	*Bag of kitty litter (absorbent), paper towels*	*Inside Roll-Up Door*
MOTOR OIL	KITTY LITTER	MECHANIC SHOP
	AND PAPER TOWELS	

Record any additional spill plan information here:

_____

_____

_____

_____

Important Contacts

Storm Water Hotline (619) 235-1000 **Hazardous Materials Hotline** (877) 713-2784

Other:

In the event of an emergency, call 9-1-1

Note:

The above is a very brief spill plan intended for general use. There are other environmental agencies and regulations that may require a more detailed spill plan depending on the materials stored on site and the type of business. This document likely is not detailed enough to meet hazardous material requirements. This document is not intended to be a substitute for any other requirements but when completed meets the City's storm water requirement of a written spill plan.

Business Name MARTINEZ FARMS

Storm Water Minimum Best Management (BMP) Plan

Business Address 2440 CACTUS RD

Date Completed 12/1/12

✓	No.	BMP Title	Description and Examples	Justification for BMP	Site Specific Implementation Notes
✓	1	Provide secondary containment to catch spills if storing hazardous materials	Use one of a variety of methods (e.g., containers, curbs, vendor products) to provide secondary containment for areas storing hazardous materials in case of leaks or spills	Prevents pollutants from potentially entering the storm drain system by keeping them onsite	
✓	2	Use drip pans, etc. to collect leaks/spills	Repair vehicle leaks promptly. Use drip pans or other means (e.g. sealable containers) to capture spills or leaks of oil and other fluids from vehicles during maintenance; dispose of captured fluids per BMP #11 where applicable.	Prevents pollutants from potentially entering the storm drain system by keeping them onsite	
✓	3	Clean floor mats in locations that do not drain directly to storm drain system.	Wash kitchen floor mats and entry/exit door mats such that wash water is captured and directed to sanitary sewer system or wash mats with potable water or biodegradable detergent such that water drains to landscape areas without runoff to storm drain system.	Directs pollutants to sanitary system or landscape areas	
✓	4	Properly dispose of process or wash water	Collect wash water from processes such as pressure washing in permanent or temporary capture facilities and direct to landscape areas for infiltration or pump to sanitary sewer. (Coordinate with MWWD and obtain industrial discharge permit if necessary.)	Directs pollutants to sanitary system and avoids non-storm water discharge	
✓	5	Immediately clean up spills with dry methods	Use absorbents, sweeping, and other dry cleanup methods to clean up spills and dispose of properly (depending on nature of spill) rather than washing spilled material into the storm drain system. Provide spill kits with dry cleanup materials in readily accessible locations. Train appropriate employees in spill response procedures.	Removes potential pollutants	
✓	6	Maintain a spill cleanup kit. Have necessary materials and equipment readily available	Use methods, equipment, and materials appropriate for the spill materials. For hazardous materials call Environmental Services Department. Assure that absorbents and dry cleanup materials are located in close proximity to locations where hazardous materials or potential storm water pollutants are stored or used, and instructions are clearly displayed	Removes potential pollutants	
✓	7	Wash vehicles and equipment in designated area and implement practices to prevent water from entering the storm drain.	Discharge to the storm drain system is prohibited. Prevent pollutants from potentially entering the storm drain system by containment, directing flow to landscaped areas, or vacuuming. Use a control nozzle or similar.	Prevents pollutants from potentially entering the storm drain system by keeping them onsite	
✓	8	Properly store and dispose of green waste	Do not dump or leave green matter from landscaping maintenance where it could enter the storm drain system. Take to green waste section of landfill or use appropriately on site.	Prevents pollutants from potentially entering the storm drain system	
✓	9	Keep animals out of creeks	Fence areas adjacent to channels to keep animals out of creeks and surrounding areas. Provide stock ponds or water tanks away from watercourses.	Prevents deposition of pollutants (nitrates, bacteria, etc.) in drainage way	
✓	10	Prevent discharge of water from fire sprinkler system maintenance activities to the storm drain system, if feasible	Fire sprinkler systems containing corrosion inhibitors, fire suppressants, or antifreeze: • Prevent discharge to storm drain system • Collect and dispose of discharge to sanitary sewer system Fire sprinkler systems without corrosion inhibitors, fire suppressants, or antifreeze: • Discharge to the sanitary sewer system, if feasible. • If infeasible, conduct one or a combination of the following on days without a prediction for rain: -Direct flows to a paved area for evaporation/wet vacuuming and sweeping, and/or -Infiltrate flows in suitable landscape area without causing erosion or runoff. -For any portion of the flows that cannot be managed with the above methods, clean trash and debris from the flow path to the storm drain inlet and mechanically filter remaining flow with an appropriate filter fabric or other equivalent media prior to discharge to the storm drain system. Main water lines into buildings (Potable water): Discharge to the storm drain system, provided that the flow path to the storm drain inlet has been swept of debris, the water is dechlorinated, and the water has a pH between 6 and 9.	Prevents or reduces pollutants from potentially entering the storm drain system by keeping them onsite	

Storm Water Minimum Best Management (BMP) Plan

✓	No.	BMP Title	Description and Examples	Justification for BMP	Site Specific Implementation Notes
✓	11	Properly store and dispose of hazardous materials	Store hazardous materials (paints, solvents, oils, pesticides) such that they will not come into contact with storm water if leaks or spills occur. Dispose of hazardous materials using authorized hazardous material collection services.	Prevents pollutants from potentially entering the storm drain system	
✓	12	When there is flexibility, schedule during dry weather any outdoor activities that could release pollutants	When there is flexibility, schedule outdoor activities such as vehicle washing and maintenance, handling of hazardous materials, mobile cleaning operations, etc. for non-rainy days. Or, move activities indoors.	Reduces potential for washing pollutants into storm drain system	
✓	13	Label containers and maintain up-to-date inventory to prevent mishandling of hazardous materials	Keep accurate inventory of potentially hazardous materials, especially those stored in outdoor areas. Clearly label containers with contents and any special handling instructions in accordance with current regulations.	Prevents pollutants from potentially entering the storm drain system	
✓	14	Drain and properly dispose of fluids from inoperable vehicles	Drain oil, antifreeze, and other fluids from vehicle stored outside for storage or salvage. Dispose of waste per BMP #11 where applicable.	Prevents pollutants from potentially entering the storm drain system	
✓	15	Provide pollution prevention signage for storm drains, material storage, etc.	Provide concrete stamping or equivalent on all onsite drainage inlets and catch basins with prohibitive language (e.g., "No Dumping – Drains to Ocean"). Provide signage indicating nature of materials stored onsite, particularly hazardous materials, in accordance with current regulations.	Reduces potential for employees to inadvertently introduce pollutants into storm drain system	
✓	16	Properly manage pesticide/fertilizer use	Apply pesticides and fertilizers in strict accordance with manufacturer's guidance. Safely store chemicals in closed/covered areas. Dispose of waste products per BMP #11. When feasible, use integrated pest management principles (plant selection, biological controls, habitat manipulation) to reduce use of chemicals.	Reduces introduction of pollutants to areas that generate runoff	
✓	17	Protect landscaped areas from erosion by maintaining vegetative cover	Plant and maintain healthy ground cover on exposed soils to reduce runoff and erosion of soils that may contain or transport pollutants	Reduces erosion and associated pollutants	
✓	18	Temporarily protect storm drains from non-storm water discharges while conducting activities have the potential to result in a discharge	Use temporary covers, sand bags, or other methods to prevent nonstorm water from entering storm drain system.	Prevents non-storm water and contaminated storm water from entering storm drain system	
✓	19	Eliminate irrigation runoff to the storm drain system	The goal of this BMP is to eliminate irrigation runoff to the storm drain system through proper landscape maintenance and watering practices, though it is recognized that some irrigation runoff may occur due to broken sprinklers, irrigation system failures, etc. Adopt proper watering and site design practices, properly maintain irrigation systems by abating runoff from broken sprinklers and other system components, control overspray, and abide by local watering restrictions.	Reduces potential for non-storm water to enter storm drain system	
	20	Regularly sweep parking areas	Sweep regularly as needed	Removes potential pollutants	
✓	21	Protect trash storage areas from contact with storm water	Trash areas should be either: (1) paved with an impervious surface, designed not to allow run-on from adjoining areas, and screened to prevent off-site transport of trash; (2) contain attached lids that exclude rain; and/or (3) covered to minimize direct precipitation. Locate trash areas downstream of drain inlets where applicable. Keep area free of trash.	Reduces contact of rain water with potential pollutants, and reduces runoff of potentially contaminated storm water	
✓	22	Properly dispose of swimming pool, spa, fountain, and filter backwash water	Discharge swimming pool, spa, and fountain water only if the water is dechlorinated, has a pH in 7-8 range, is within ambient temperature, and has no algae or suspended solids. If any of the above standards are not met, dispose of swimming pool, spa, and fountain water either by (1) discharging water to the sanitary sewer system; and/or (2) draining water to landscaped areas. Dispose of filter backwash water only to a landscaped area or the sanitary sewer system.	Prevents contaminated discharge water from entering storm drain system	
✓	23	Clean up regularly with dry methods and non-hazardous cleaning products	Use absorbents, sweeping, and other dry cleanup methods to clean up spills rather than washing spilled material into the storm drain system. Dispose of spilled material properly (e.g., hazardous waste materials per BMP #11). Avoid use of cleaning products containing hazardous substances. Dispose of wash water to landscaped areas or sanitary sewer.	Removes potential pollutants	

Storm Water Minimum Best Management (BMP) Plan

✓	No.	BMP Title	Description and Examples	Justification for BMP	Site Specific Implementation Notes
✓	24	Clean trash disposal areas	Keep trash in dumpsters and other receptacles; prevent trash from blowing offsite; sweep trash storage areas frequently; check dumpsters for leaks; never place liquid waste in dumpsters; use dry *cleanup* methods in trash disposal areas.	Prevents contact of rain water with pollutants	
✓	25	Train appropriate employees on storm water pollution prevention	Provide initiation training and annual refresher training for employees involved in activities that could result in spills or discharges to the storm drain system. Assure all employees are familiar with SWPPP if one exists for the site. Designate and train key employees in proper installation, operation, and maintenance of any onsite BMPs.	Reduces potential for employees to inadvertently introduce pollutants into storm drain system	
✓	26	Have written procedures for preventing and responding to spills	Facilities subject to regulations such as SPCC or Hazardous Materials Business Plan regulations already should have developed plans in accordance with guidance provided by State, City, and County emergency management departments. For businesses not subject to emergency response and contingency plans as described above, provide written procedures for preventing and responding to spills. Documents should be appropriate in scale to facility activities and potential discharges. Post procedures in appropriate areas and train appropriate employees in spill response procedures.	Removes potential pollutants	
✓	27	Develop a written plan for identifying appropriate BMPs and describing proper implementation	Maintain a written plan that identifies all BMPs to be used and provides clear instruction on how to properly implement each BMP. For facilities subject to storm water permitting pursuant to State General Industrial Permit regulations, this requirement is met by the required Storm Water Pollution Prevention Plan. For businesses not subject to the State General Industrial Permit, this written plan need be appropriately scaled to the size of the facility and potential for discharges. Update those plan as site conditions or activities change.	Prepares plan to address site specific conditions and pollutant sources	
✓	28	Identify and eliminate illegal connections to storm drain	Assure all process water and drainage from loading areas, vehicle maintenance areas, and manufacturing areas is discharged to sanitary sewer system	Prevents pollutants from potentially entering the storm drain system	
Additional BMPs and/or Notes					

Note: This document is not intended to be a substitute for any other requirements but when completed meets the City's storm water requirement of a minimum BMP plan. The BMPs included may not include all BMPs that should be implemented at a particular facility; additional BMPs should be added to this plan as necessary. Applicable BMPs should be implemented by the business and this document should be updated to reflect any changes in site conditions and/or business activities. This document should be kept on-site and made available for review during future storm water compliance inspections.

STATE OF CALIFORNIA
DEPARTMENT OF FOOD AND AGRICULTURE
1220 N STREET
SACRAMENTO, CALIFORNIA 95814
916.654.0435

LICENSE NUMBER

A5551.001

LICENSE TO SELL NURSERY STOCK

THIS LICENSE EXPIRES
Dec. 31, 2013

MARTINEZ FARMS, INCORPORATED
2440 CACTUS ROAD
SAN DIEGO CA 92154-8007

LICENSE FEE $150.00

ACREAGE FEE $400.00

SIGNATURE

SAN DIEGO COUNTY

POST THIS LICENSE PROMINENTLY IN PUBLIC VIEW

64-033 (REV. 5-00) THIS LICENSE IS NOT TRANSFERABLE - ANY CHANGE IN OWNERSHIP REQUIRES A NEW LICENSE

Picture No. 1

Run on from Cactus Road seems to occur in a sheet flow fashion. No diversion and erosion were observed

Picture taken by Dat Quach on 1-23-2013 at Martinez Farm in Otay Mesa

Picture No. 2

Irrigation was done by hand.

Picture taken by Dat Quach on 1-23-2013 at Martinez Farm in Otay Mesa

Picture No. 3

Slopes are vegetated and irrigated. No erosion was seen.

Picture taken by Dat Quach on 1-23-2013 at Martinez Farm in Otay Mesa

Picture No. 4

Rain water from the roofs of green house are collected and drained into concrete ditches and discharged to creek off site. No erosion was seen

Picture taken by Dat Quach on 1-23-2013 at Martinez Farm in Otay Mesa

Picture No. 5

Discharge point of rain water from roofs of green houses..

Picture taken by Dat Quach on 1-23-2013 at Martinez Farm in Otay Mesa

Picture No. 6

Materials for business were stored under the roofs.

Picture taken by Dat Quach on 1-23-2013 at Martinez Farm in Otay Mesa

Picture No. 7

Fiber rolls and plastic sheets were installed to protect a pile of material out door

Picture taken by Dat Quach on 1-23-2013 at Martinez Farm in Otay Mesa

USPS Certified and Return Receipt

Date of Letter	Staff Name
4/9/2013	FMELBOURN

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Richard Martinez
Martinez Farms, Inc.
2440 Cactus Road
San Diego, CA 92154-8007

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Addressee

B. Received by (*Printed Name*) SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD

C. Date of Delivery 4/11/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

2013 APR 15 AM 8 10

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (*Extra Fee*) ☐ Yes

2. Article Number
(*Transfer from service label*) 7011 0470 0002 8961 7975

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

California Regional Water Quality Control Board, San Diego Region

April 9, 2013

Certified Mail – Return Receipt Requested
Article Number: 7011 0470 0002 8961 7975

In reply refer to: 792205:Melbourn

Mr. Richard Martinez
Martinez Farms, Inc.
2440 Cactus Road
San Diego, California 92154-8007

Notice of Violation No. R9-2013-0060, Discharge of Waste Without Waste Discharge Requirements or Waiver; Water Code Section 13267 Request for Information

Mr. Martinez:

This notice provides important information regarding discharges of wastewater and storm water from your agricultural operations.

As part of our efforts to protect water quality, the California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) adopted Conditional Waiver No. 4 for Discharges from Agricultural and Nursery Operations (Conditional Waiver No. 4) on October 10, 2007 (Resolution No. R9-2007-0104), pursuant to Water Code section 13269. Conditional Waiver No. 4 requires all agricultural and nursery growing operations to submit a Notice of Intent (NOI) to enroll under Conditional Waiver No. 4, participate in either an individual or group monitoring program, and implement necessary Best Management Practices (BMPs) to minimize or eliminate the discharge of pollutants. The deadline for enrollment was January 1, 2011. The deadline for submitting monitoring and reporting plans was January 1, 2012. For more information about Conditional Waiver No. 4, please visit the San Diego Water Board's website at: http://www.waterboards.ca.gov/rwqcb9/board_decisions/waivers/index.shtml. Operators who do not enroll under Conditional Waiver No. 4 must apply for individual waste discharge requirements (WDRs) by submitting a Report of Waste Discharge (ROWD) as required by Water Code section 13260(a)(1).

The San Diego Water Board inspected your facility on January 23, 2013. The inspector observed and documented the following:

1. Discharges of storm water runoff;
2. Application of amendments or mulches to soil;
3. Discharges of agricultural or nursery irrigation return water; and
4. Implementation of Best Management Practices (including staff training).

Furthermore, your facility representative indicated that the facility was not enrolled in a monitoring group and had not filed an individual NOI with the San Diego Water Board, so the operation is not currently covered by Conditional Waiver No. 4 or WDRs. Pursuant to Water Code section 13260, you are required to submit either an NOI to comply with Conditional Wavier No. 4 or a ROWD for individual WDRs for your irrigated agricultural lands. Our records confirm that you have not submitted an NOI to comply with Conditional Waiver No. 4, nor have you submitted a ROWD for individual WDRs. You are therefore in violation of Water Code section 13260(a)(1) and subject to further enforcement.

You are hereby directed to immediately submit a Notice of Intent to comply with Conditional Waiver No. 4, or a Report of Waste Discharge for individual Waste Discharge Requirements.

Water Code section 13261 provides that a person who fails to furnish a report required under Water Code section 13260 when so requested by the San Diego Water Board may be liable in an amount up to one thousand dollars ($1,000) for each day in which the violation occurs. In addition, Water Code section 13350 states that any person who violates a waiver condition shall be liable civilly, and penalties may be imposed by the San Diego Water Board either on a daily or on a per gallon basis, with a potential liability of five thousand ($5,000) for each day the violation occurs. These civil liabilities may be assessed by the San Diego Water Board for failure to comply, beginning with the date that the violations first occurred, and without further warning.

In addition, pursuant to Water Code section 13267(b)(1), please provide a written response by April 22, 2013, that contains the following: a detailed description of your operations (i.e., type of plants grown, approximate number and manner of propagation, names and amounts of pesticides applied, and names and amounts of fertilizer applied) and date of operation; a description of water quality training and dates that you and your staff have attended over the last three years; a facility map showing the location of BMPs; any correspondence, inspections or documents you have received concerning water quality and agricultural activities; and any water quality sampling results over the last three years. There is no need to duplicate the information provided and included in the attached inspection report. The required written response shall be signed and certified by an official of Martinez Farms, Inc. with the following certification statement.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

The written response shall be submitted to the following address:

Frank Melbourn
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340

The San Diego Water Board needs the requested information to assess the potential for water quality impacts by contaminated storm water from your facility. Based on the nature and possible consequences of any discharge(s), the burden, including the cost of submitting this information bears a reasonable relationship to the need for the information and the benefits to be obtained. Water Code section 13268 provides that any person failing to provide information requested by the San Diego Water Board pursuant to section 13267 may be subject to administrative civil liability of up to one thousand dollars ($1,000) for each day in which the violation occurs.

The San Diego Water Board reserves the right to take any enforcement action authorized by law. This includes penalties for discharging without submitting an NOI or obtaining permit coverage in addition to failure to provide requested information. In making the determination of whether and how to proceed with further enforcement action, the San Diego Water Board will consider the severity and effect of the violation; the level of cooperation; the time it takes to correct the identified violations; and the sufficiency of the corrections.

In the subject line of any response, please include the reference number and name. For questions or comments, please contact Frank Melbourn by telephone at (858) 467-2973, or by email at fmelbourn@waterboards.ca.gov.

Respectfully,

JEREMY C. HAAS
Environmental Program Manager
Water Quality Restoration and Standards Branch

JCH:cmc:ftm

Enclosure: January 24, 2013, Inspection Report

cc: Eric Larson, San Diego Farm Bureau, eric@sdfarmbureau.org
Roger Mitchell, San Diego Water Board, rmitchell@waterboards.ca.gov
James Smith, San Diego Water Board, jsmith@waterboards.ca.gov

Tech Staff Info & Use	
Party (GT/CIWQS) ID	539184
Reg. Measure ID	389625
Place ID	792205 / 766892
Person ID	538972
Inspection ID	11610670

California Water Boards

Edmund G. Brown Jr. Governor

Matthew Rodriquez Secretary for Environmental Protection

California Regional Water Quality Control Board, San Diego Region

DRAFT
Inspection Checklist for Compliance with Conditional Waiver of Waste Discharge Requirements for Discharges at Agricultural and Nursery Operations

Staff Contact: Roger Mitchell • rmitchell@waterboards.ca.gov • (858)467-2724

1. Agricultural/Nursery Operation Information

Name:	MARTINEZ FARMS INC		
Address:	2440 CACTUS RD		
City: SAN DIEGO	County: CA	Zip Code:	92154
Contact Person: RUBEN JIMENEZ		Telephone No.:	(619) 666-5272

2. Facility Owner:

Name:	RICHARD MARTINEZ		
Address:	2440 CACTUS RD		
City: SAN DIEGO	County: CA	Zip Code:	92154
Contact Person: RICHARD MARTINEZ		Telephone No.:	(619) 661-6571

3. Facility Operator (If different than the owner):

Name:			
Address:	N/A		
City:	County:	Zip Code:	
Contact Person:		Telephone No.:	( )

4. Monitoring Group Affiliation (*Section 4.I.B.7*)

- ☐ Boyer Ranch Monitoring Group
- ☐ Hines Nursery Monitoring Group
- ☐ San Diego Region Irrigated Lands Group
- ☐ San Mateo Irrigated Land Group
- ☐ Upper Santa Margarita Irrigated Lands Group
- ☒ Individual Monitoring No monitoring, uses city water.

9174 Sky Park Court, Suite 100, San Diego, CA 92123-4339 | (858) 467-2952 | www.waterboards.ca.gov/sandiego

Recycled Paper

Form Version: 11/2012

(H)

5. Management Measures (MMs)/Best Management Practices (BMPs) (*Section 4.I.A.2*)

Are MMs and/or BMPs being implemented to effectively minimized or eliminate the discharge of pollutants to surface water/ground water see below note.	☐ Yes ☐ No

Briefly describe the MMs/BMPs being implemented: All fertilizer + peat moss are stored in covered area. A fiber roll is seen surrounding a pile of bark and another fiber roll is surrounded a dumpster. No erosion is seen. Slopes are vegetated and irrigated.

6. Education Requirements (*Section 4.I.B.1*)

Can the operator provide proof of attending at least 2-hours of water quality management related training?	☐ Yes ☒ No[1]

Briefly described the training attended: _____

Can the operator provide proof (i.e., newsletters, NRCS conservation plan, UCCE self-assessment) of regular contact with the local Farm Bureau, UCCE, NRCS, and/or regional RCDs to discuss latest MMs/BMPs and other water quality issues?	☐ Yes ☒ No[1]

7. Record Requirements (*Section 4.I.B.5*)

Are water quality management records being maintained		
Site map with location of MMs/BMPs, nearby surface waters and/or water wells.	☐ Y	☒ N
List of hazardous materials kept onsite.	☒ Y	☐ N
Location/amount of waste material generated and composted/resued on site or disposed of offsite.	☒ Y	☐ N
Pesticide use report.	☒ Y	☐ N
Fertilizer, soil amendment, and mulch use records.	☒ Y	☐ N
Irrigation management records.	☒ Y	☐ N
Equipment maintenance records. (Contract out)	☐ Y	☒ N
List of MM/BMPs. Inspected by city of SD contractor	☒ Y	☐ N
Owner, operator, and employee education/training records.	☒ Y	☐ N
Inspection Reports. by City of SD (2/years)	☒ Y	☐ N
Annual self assessment.	☒ Y	☐ N
Copies of permits, licenses, and certifications required to operate.	☒ Y	☐ N
Water quality monitoring data (if any). use city water.	☐ Y	☒ N

Date and Time of Inspection: 1/23/13 at 9.00AM

Inspector: Dat Quach

[1] Agricultural and nursery operators who do not have proof available during inspection must submit proof to the San Diego Water Quality Control Board within 45-days from the date of inspection

9174 Sky Park Court, Suite 100, San Diego, CA 92123-4353 | (858) 467-2952 | www.waterboards.ca.gov/sandiego

Recycled Paper

Subject: Martinez Farms

From: Kline Swonger (kswonger@dmaxinc.com)

To: rubenjimenez78@yahoo.com;

Cc: akubischta@dmaxinc.com;

Date: Wednesday, December 5, 2012 9:52 AM

Hi Ruben,

Thank you for your response. I have received sufficient documentation that all major areas of concern have been corrected at your business for both the 7150 Siempre Viva Road and 2440 Cactus Road sites. I have updated your file with this information, and you will receive an updated report in the mail that lists the original corrective actions and the resolution status of each. Any corrective actions that remain unresolved have been identified as lower priority and should be addressed through routine maintenance and BMP implementation at your facility. Your follow-up priority has been lowered, and your site will be re-evaluated at your next routine inspection. No further compliance documentation is required to be sent in for this case. Thank you for your efforts to achieve storm water compliance. If you have any further questions, please do not hesitate to contact me.

Thanks,

Kline Swonger | D-MAX Engineering, Inc.

7220 Trade Street | Suite 119 | San Diego, California 92121

Phone: 858.586.6600 ext 18 | Fax: 858.586.6644 | Email: kswonger@dmaxinc.com

Storm Water Hazardous Material Inventory

Hazardous Substance	Approx. Amount Kept On Site	Location of Material	Age of Container	Physical State (solid, liquid, gas)	Container Sealed? (Y/N)	MSDS On Site? (Y/N)
Peters Professional 20-20-20	500LBS	Martinez Farms NORTH WEST	New bags	Solid	Y	Y
Peters Cal-Mag	500LBS	" " NORTHWEST	NEW BAGS	SOLID	Y	Y
Peters 15-15-15	500LBS	" " NORTHWEST	NEW BAGS	SOLID	Y	Y

Helpful Contacts

Call 9-1-1 in an emergency

San Diego Department of Environmental Health Spill Reporting Information: http://www.sdcounty.ca.gov/deh/hazmat/spill_release.html

San Diego Fire Department (non-emergency): (619) 543-4900

Note:
The above is a very brief hazardous materials inventory intended for general use. There are other environmental agencies and regulations that may require a more detailed hazardous material inventory depending on the materials stored on site and the type of business. This document likely is not detailed enough to meet hazardous material requirements. This document is not intended to be a substitute for any other requirements but when completed meets the City's storm water requirement of a hazardous material inventory.

Storm Water Training Log

Business Name MARTINEZ FARMS

Address 2440 CACTUS RD SAN DIEGO CA 92154

Date	Training Topics	Number of Employees Trained
5-18-2011	USE DRIP PANS TO COLLECT LEAKS/SPILLS	5
11-22-2011	PROPER MANAGE PESTICIDE/FERTILIZER	5
12-8-2011	PROTECT TRASH AREAS FROM CONTACT	5
	WITH STORM WATER	
	2012	
11-30-12	PROTECT STORM DRAIN AREAS	8
	(BMPs) FOR BUSINESS	
12-3-12	DISCHARGE PROHIBITIONS	8
	& SPECIAL PROTECTIONS	

Sign-in sheet is required for each training. An example training sign-in sheet is provided below.

Name	Position	Signature
~~MIGUEL DLA MADRID~~	~~SUPERVISOR~~	~~M. DLA~~
Ruben Jimenez	Supervisor	
JUAN CARLOS GUTIERREZ	Supervisor	
RICHARD MARTINEZ	CEO	
RAUL GONZALEZ	MECHANIC	RAUL GONZALEZ
KENNY AOKI	SUPERVISOR	
MARIA LONA	SUPERVISOR	MARIA LONA
MANUEL SALINAS	GROWER	manuel Salinas
ERNESTO ALVARADO	GROWER ASSIT.	Ernesto Alvarado

City of San Diego - Storm Water Best Management Practices (BMPs) for Businesses

Proper Cleaning Techniques:
Regularly sweep paved (concrete) areas. When washing with water, mop rather than spray and dispose of dirty water to the sewer system. Avoid hosing down soiled areas or using high-pressure washers. If power washing is necessary, collect or direct the wash water to landscaped areas for infiltration or to the sewer system.

Proper Washing Techniques:
Wash kitchen floor mats and entry/exit door mats in a mop sink so that wash water is captured and directed to the sewer system, or use an industrial dishwashing machine. If washing mats outside, use a trigger nozzle and do so in a landscaped area only.

Proper Trash Containment:
Place garbage in proper dumpsters and bins. Keep trash bins closed/covered to prevent trash from blowing offsite. Sweep trash areas and check for leaks twice a week. Keep liquids out of dumpsters. Dispose of non-toxic liquids in the sewer system. Always separate trash and recycle using proper bins.

Proper Hazardous Material Use & Disposal:
Store hazardous materials in sealed areas (such as containers or closed storage) to prevent leaks or spills. Dispose using authorized collection services. Identify the proper way to dispose of hazardous waste by calling the County Department of Environmental Health at 619-338-2231. Hazardous waste includes unused paint, solvents, oils, furniture polish and pesticides.

When it rains or when excess water runs off landscaping and pavement onto our streets, it can flow into one of the City's storm drains. Many people believe these storm drains are part of the City's sewer system and anything that enters them is eventually treated. However, the storm drain system is NOT connected to the sewer system. Everything that washes into storm drains travels untreated to our creeks, rivers, bays, and ocean, polluting our beaches and harming fish and wildlife. You can help reduce pollution and improve water quality by using the following Best Management Practices (BMPs) as part of your business' daily clean up and maintenance routine.

Storm Water Spill Prevention Plan

Business Name MARTINEZ FARMS

Business Address 2440 CACTUS RD SAN DIEGO CA 92154

Business Telephone (619) 661-6571, 72, 73, 74

Emergency/Off Hours Contact Person RUBEN JIMENEZ **Telephone** (619) 666-5272

Spill Clean Up Plan

- Post this spill clean up plan
- Use response materials (rags, absorbent, etc.) to soak up liquid substances
- Clean up any used absorbent materials and dispose of properly
- If substance is hazardous waste, follow proper hazardous disposal procedures
- Do not hose down outside spills
- If rinsing area is necessary, collect the rinse water with mop, wet-vacuum, or similar and dispose of it in a sanitary sewer drain (i.e. sink)
- Train employees to adequately respond to spills and leaks
- Maintain caution and common sense in responding to spills to prevent personal injury
- Designate employee(s) to monitor spill clean-up: _____

Spill Response Kit Materials and Locations

Potential Spill	Spill Response Kit Material	Spill Response Kit Location
Example: Fluid leaks from trucks	*40 gallons absorbent, oil absorbing socks*	*Loading Dock*
Example: Cleaning products	*Bag of kitty litter (absorbent), paper towels*	*Inside Roll-Up Door*
MOTOR OIL	KITTY LITTER	MECHANIC SHOP
	AND PAPER TOWELS	

Record any additional spill plan information here:

_____

_____

_____

_____

Important Contacts

Storm Water Hotline (619) 235-1000 **Hazardous Materials Hotline** (877) 713-2784

Other: _____

In the event of an emergency, call 9-1-1

Note:

The above is a very brief spill plan intended for general use. There are other environmental agencies and regulations that may require a more detailed spill plan depending on the materials stored on site and the type of business. This document likely is not detailed enough to meet hazardous material requirements. This document is not intended to be a substitute for any other requirements but when completed meets the City's storm water requirement of a written spill plan.

Storm Water Minimum Best Management (BMP) Plan

Business Name MARTINEZ FARMS Business Address 2440 CACTUS RD Date Completed 12/1/12

✓	No.	BMP Title	Description and Examples	Justification for BMP	Site Specific Implementation Notes
✓	1	Provide secondary containment to catch spills if storing hazardous materials	Use one of a variety of methods (e.g., containers, curbs, vendor products) to provide secondary containment for areas storing hazardous materials in case of leaks or spills	Prevents pollutants from potentially entering the storm drain system by keeping them onsite	
✓	2	Use drip pans, etc. to collect leaks/spills	Repair vehicle leaks promptly. Use drip pans or other means (e.g. sealable containers) to capture spills or leaks of oil and other fluids from vehicles during maintenance; dispose of captured fluids per BMP #11 where applicable.	Prevents pollutants from potentially entering the storm drain system by keeping them onsite	
✓	3	Clean floor mats in locations that do not drain directly to storm drain system.	Wash kitchen floor mats and entry/exit door mats such that wash water is captured and directed to sanitary sewer system or wash mats with potable water or biodegradable detergent such that water drains to landscape areas without runoff to storm drain system.	Directs pollutants to sanitary system or landscape areas	
✓	4	Properly dispose of process or wash water	Collect wash water from processes such as pressure washing in permanent or temporary capture facilities and direct to landscape areas for infiltration or pump to sanitary sewer. (Coordinate with MWWD and obtain industrial discharge permit if necessary.)	Directs pollutants to sanitary system and avoids non-storm water discharge	
✓	5	Immediately clean up spills with dry methods	Use absorbents, sweeping, and other dry cleanup methods to clean up spills and dispose of properly (depending on nature of spill) rather than washing spilled material into the storm drain system. Provide spill kits with dry cleanup materials in readily accessible locations. Train appropriate employees in spill response procedures.	Removes potential pollutants	
✓	6	Maintain a spill cleanup kit. Have necessary materials and equipment readily available	Use methods, equipment, and materials appropriate for the spill materials. For hazardous materials call Environmental Services Department. Assure that absorbents and dry cleanup materials are located in close proximity to locations where hazardous materials or potential storm water pollutants are stored or used, and instructions are clearly displayed	Removes potential pollutants	
✓	7	Wash vehicles and equipment in designated area and implement practices to prevent water from entering the storm drain.	Discharge to the storm drain system is prohibited. Prevent pollutants from potentially entering the storm drain system by containment, directing flow to landscaped areas, or vacuuming. Use a control nozzle or similar.	Prevents pollutants from potentially entering the storm drain system by keeping them onsite	
✓	8	Properly store and dispose of green waste	Do not dump or leave green matter from landscaping maintenance where it could enter the storm drain system. Take to green waste section of landfill or use appropriately on site.	Prevents pollutants from potentially entering the storm drain system	
✓	9	Keep animals out of creeks	Fence areas adjacent to channels to keep animals out of creeks and surrounding areas. Provide stock ponds or water tanks away from watercourses.	Prevents deposition of pollutants (nitrates, bacteria, etc.) in drainage way	
✓	10	Prevent discharge of water from fire sprinkler system maintenance activities to the storm drain system, if feasible	Fire sprinkler systems containing corrosion inhibitors, fire suppressants, or antifreeze: • Prevent discharge to storm drain system • Collect and dispose of discharge to sanitary sewer system Fire sprinkler systems without corrosion inhibitors, fire suppressants, or antifreeze: • Discharge to the sanitary sewer system, if feasible. • If infeasible, conduct one or a combination of the following on days without a prediction for rain: -Direct flows to a paved area for evaporation/wet vacuuming and sweeping, and/or -Infiltrate flows in suitable landscape area without causing erosion or runoff. -For any portion of the flows that cannot be managed with the above methods, clean trash and debris from the flow path to the storm drain inlet and mechanically filter remaining flow with an appropriate filter fabric or other equivalent media prior to discharge to the storm drain system. Main water lines into buildings (Potable water): Discharge to the storm drain system, provided that the flow path to the storm drain inlet has been swept of debris, the water is dechlorinated, and the water has a pH between 6 and 9.	Prevents or reduces pollutants from potentially entering the storm drain system by keeping them onsite	

Storm Water Minimum Best Management (BMP) Plan

✓	No.	BMP Title	Description and Examples	Justification for BMP	Site Specific Implementation Notes
✓	11	Properly store and dispose of hazardous materials	Store hazardous materials (paints, solvents, oils, pesticides) such that they will not come into contact with storm water if leaks or spills occur. Dispose of hazardous materials using authorized hazardous material collection services.	Prevents pollutants from potentially entering the storm drain system	
✓	12	When there is flexibility, schedule during dry weather any outdoor activities that could release pollutants	When there is flexibility, schedule outdoor activities such as vehicle washing and maintenance, handling of hazardous materials, mobile cleaning operations, etc. for non-rainy days. Or, move activities indoors.	Reduces potential for washing pollutants into storm drain system	
✓	13	Label containers and maintain up-to-date inventory to prevent mishandling of hazardous materials	Keep accurate inventory of potentially hazardous materials, especially those stored in outdoor areas. Clearly label containers with contents and any special handling instructions in accordance with current regulations.	Prevents pollutants from potentially entering the storm drain system	
✓	14	Drain and properly dispose of fluids from inoperable vehicles	Drain oil, antifreeze, and other fluids from vehicle stored outside for storage or salvage. Dispose of waste per BMP #11 where applicable.	Prevents pollutants from potentially entering the storm drain system	
✓	15	Provide pollution prevention signage for storm drains, material storage, etc.	Provide concrete stamping or equivalent on all onsite drainage inlets and catch basins with prohibitive language (e.g., "No Dumping – Drains to Ocean"). Provide signage indicating nature of materials stored onsite, particularly hazardous materials, in accordance with current regulations.	Reduces potential for employees to inadvertently introduce pollutants into storm drain system	
✓	16	Properly manage pesticide/fertilizer use	Apply pesticides and fertilizers in strict accordance with manufacturer's guidance. Safely store chemicals in closed/covered areas. Dispose of waste products per BMP #11. When feasible, use integrated pest management principles (plant selection, biological controls, habitat manipulation) to reduce use of chemicals.	Reduces introduction of pollutants to areas that generate runoff	
✓	17	Protect landscaped areas from erosion by maintaining vegetative cover	Plant and maintain healthy ground cover on exposed soils to reduce runoff and erosion of soils that may contain or transport pollutants	Reduces erosion and associated pollutants	
✓	18	Temporarily protect storm drains from non-storm water discharges while conducting activities have the potential to result in a discharge	Use temporary covers, sand bags, or other methods to prevent nonstorm water from entering storm drain system.	Prevents non-storm water and contaminated storm water from entering storm drain system	
✓	19	Eliminate irrigation runoff to the storm drain system	The goal of this BMP is to eliminate irrigation runoff to the storm drain system through proper landscape maintenance and watering practices, though it is recognized that some irrigation runoff may occur due to broken sprinklers, irrigation system failures, etc. Adopt proper watering and site design practices, properly maintain irrigation systems by abating runoff from broken sprinklers and other system components, control overspray, and abide by local watering restrictions.	Reduces potential for non-storm water to enter storm drain system	
	20	Regularly sweep parking areas	Sweep regularly as needed	Removes potential pollutants	
✓	21	Protect trash storage areas from contact with storm water	Trash areas should be either: (1) paved with an impervious surface, designed not to allow run-on from adjoining areas, and screened to prevent off-site transport of trash; (2) contain attached lids that exclude rain; and/or (3) covered to minimize direct precipitation. Locate trash areas downstream of drain inlets where applicable. Keep area free of trash.	Reduces contact of rain water with potential pollutants, and reduces runoff of potentially contaminated storm water	
✓	22	Properly dispose of swimming pool, spa, fountain, and filter backwash water	Discharge swimming pool, spa, and fountain water only if the water is dechlorinated, has a pH in 7-8 range, is within ambient temperature, and has no algae or suspended solids. If any of the above standards are not met, dispose of swimming pool, spa, and fountain water either by (1) discharging water to the sanitary sewer system; and/or (2) draining water to landscaped areas. Dispose of filter backwash water only to a landscaped area or the sanitary sewer system.	Prevents contaminated discharge water from entering storm drain system	
✓	23	Clean up regularly with dry methods and non-hazardous cleaning products	Use absorbents, sweeping, and other dry cleanup methods to clean up spills rather than washing spilled material into the storm drain system. Dispose of spilled material properly (e.g., hazardous waste materials per BMP #11). Avoid use of cleaning products containing hazardous substances. Dispose of wash water to landscaped areas or sanitary sewer.	Removes potential pollutants	

Storm Water Minimum Best Management (BMP) Plan

✓	No.	BMP Title	Description and Examples	Justification for BMP	Site Specific Implementation Notes
✓	24	Clean trash disposal areas	Keep trash in dumpsters and other receptacles; prevent trash from blowing offsite; sweep trash storage areas frequently; check dumpsters for leaks; never place liquid waste in dumpsters; use dry cleanup methods in trash disposal areas.	Prevents contact of rain water with pollutants	
✓	25	Train appropriate employees on storm water pollution prevention	Provide initiation training and annual refresher training for employees involved in activities that could result in spills or discharges to the storm drain system. Assure all employees are familiar with SWPPP if one exists for the site. Designate and train key employees in proper installation, operation, and maintenance of any onsite BMPs.	Reduces potential for employees to inadvertently introduce pollutants into storm drain system	
✓	26	Have written procedures for preventing and responding to spills	Facilities subject to regulations such as SPCC or Hazardous Materials Business Plan regulations already should have developed plans in accordance with guidance provided by State, City, and County emergency management departments. For businesses not subject to emergency response and contingency plans as described above, provide written procedures for preventing and responding to spills. Documents should be appropriate in scale to facility activities and potential discharges. Post procedures in appropriate areas and train appropriate employees in spill response procedures.	Removes potential pollutants	
✓	27	Develop a written plan for identifying appropriate BMPs and describing proper implementation	Maintain a written plan that identifies all BMPs to be used and provides clear instruction on how to properly implement each BMP. For facilities subject to storm water permitting pursuant to State General Industrial Permit regulations, this requirement is met by the required Storm Water Pollution Prevention Plan. For businesses not subject to the State General Industrial Permit, this written plan need be appropriately scaled to the size of the facility and potential for discharges. Update those plan as site conditions or activities change.	Prepares plan to address site specific conditions and pollutant sources	
✓	28	Identify and eliminate illegal connections to storm drain	Assure all process water and drainage from loading areas, vehicle maintenance areas, and manufacturing areas is discharged to sanitary sewer system	Prevents pollutants from potentially entering the storm drain system	
Additional BMPs and/or Notes					

Note: This document is not intended to be a substitute for any other requirements but when completed meets the City's storm water requirement of a minimum BMP plan. The BMPs included may not include all BMPs that should be implmented at a particular facility; additional BMPs should be added to this plan as necessary. Applicable BMPs should be implemented by the business and this document should be updated to reflect any changes in site conditions and/or business activities. This document should be kept on-site and made available for review during future storm water compliance inspections.

STATE OF CALIFORNIA
DEPARTMENT OF FOOD AND AGRICULTURE
1220 N STREET
SACRAMENTO, CALIFORNIA 95814
916.654.0435

LICENSE NUMBER

A5551.001

LICENSE TO SELL NURSERY STOCK

THIS LICENSE EXPIRES
Dec. 31, 2013

MARTINEZ FARMS, INCORPORATED
2440 CACTUS ROAD
SAN DIEGO CA 92154-8007

LICENSE FEE $150.00

ACREAGE FEE $400.00

SIGNATURE

SAN DIEGO COUNTY

POST THIS LICENSE PROMINENTLY IN PUBLIC VIEW

64-033 (REV. 5-00) THIS LICENSE IS NOT TRANSFERABLE - ANY CHANGE IN OWNERSHIP REQUIRES A NEW LICENSE

Picture No. 1

Run on from Cactus Road seems to occur in a sheet flow fashion. No diversion and erosion were observed

Picture taken by Dat Quach on 1-23-2013 at Martinez Farm in Otay Mesa

Picture No. 2

Irrigation was done by hand.

Picture taken by Dat Quach on 1-23-2013 at Martinez Farm in Otay Mesa

Picture No. 3

Slopes are vegetated and irrigated. No erosion was seen.

Picture taken by Dat Quach on 1-23-2013 at Martinez Farm in Otay Mesa

Picture No. 4

Rain water from the roofs of green house are collected and drained into concrete ditches and discharged to creek off site. No erosion was seen

Picture taken by Dat Quach on 1-23-2013 at Martinez Farm in Otay Mesa

Picture No. 5

Discharge point of rain water from roofs of green houses..

Picture taken by Dat Quach on 1-23-2013 at Martinez Farm in Otay Mesa

Picture No. 6

Materials for business were stored under the roofs.

Picture taken by Dat Quach on 1-23-2013 at Martinez Farm in Otay Mesa

Picture No. 7

Fiber rolls and plastic sheets were installed to protect a pile of material out door

Picture taken by Dat Quach on 1-23-2013 at Martinez Farm in Otay Mesa

Appendix H
Qualifications of the Environmental Professionals

COLIN P. YOUNG, CIH

PROFESSIONAL HISTORY

Current

- C Young Associates (CYA), La Jolla, California, 1996-2000, 2003, 01/2009-Present

Previous

- ERM-West, Inc., San Diego, California, Partner-Managing Principal, San Diego Office, 12/03-01/09
- Geocon, Inc., San Diego, California, Vice President/Southern California Operations Manager, 2000-2003, Project Manager/ Marketing Coordinator, 1989-1991
- Metcalf & Eddy, Inc., San Diego, California, Associate/Business Manager-Environmental Services Division, October 1994-1996
- University of California, San Diego (UCSD), Instructor for Occupational Medicine/Public Health & Safety Extension Certificate Program, 1992-2003
- Brown & Root Environmental/Halliburton NUS Corporation
  - San Diego, California, West Region Manager-Western Division Operations, 1991-1993
  - Boston, Massachusetts, U.S. EPA, Region 1 FIT Public Health Specialist, 1982-1985
- Westec Services, Inc./ERCE, San Diego, California, Project Manager/ Manager of Corporate Health & Safety, 1986-1989

PROFESSIONAL EXPERIENCE and QUALIFICATIONS-Academic

- UCSD, Course Instructor for Occupational Medicine Certificate Program, *Industrial Hygiene for the Occupational Health Nurse*, 1992-1995
- UCSD, Course Instructor for Occupational Health & Safety/ Hazardous Materials Certificate Program, *Principles in Industrial Hygiene*, 1995-2003

PROFESSIONAL EXPERIENCE and QUALIFICATIONS-Technical

Industrial Hygiene

Provide, or have provided, forensic investigation, human health assessment and exposure/injury prevention related services, including the performance of "sick-building"/indoor air quality evaluations, worker exposure assessments, biological contamination (e.g., bioaerosol/mold) studies, litigation support, workers' comp. investigations, asbestos and lead assessments, industrial process safety evaluations, health & safety training and support programs for environmental, hazardous waste, industrial and construction projects and activities. Services have been provided to legal, insurance, industrial, commercial and governmental (e.g., Navy, DOE, regulatory, etc.) clients, alike. Experience representations are summarized, as follows:

- Provide technical and risk management counsel on civil and exposure/toxic tort matters involving alleged environmental impairment and human exposures to hazardous materials, including chemicals and bioaerosols. To date, approximately 200 legal matters have been

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1042 Skylark Drive, La Jolla, CA 92037
Cell: (858) 945-7029
E-Mail: colin@cyaforensics.com

supported.

- Provided industrial hygiene/health & safety support and programs for more than 400 environmental and hazardous waste investigations and remediation programs for the US EPA and private entities. Typical projects involved the handling of, and/or potential for exposure to, biological contaminants, fuel and chlorinated hydrocarbons, pesticides, PCBs, asbestos, lead and explosive materials.
- Performed numerous surveys of commercial, industrial and residential structures believed to contain unhealthy and/or potentially hazardous indoor air-quality conditions, including chemical and bioaerosol intrusion.
- Performed numerous industrial process safety evaluations in support of both Workers' Compensation claim-reduction (i.e., limitation of liability) programs and impending Workers' Compensation claims. The services have been provided for the benefit of employers, property owners and business/property insurers and legal counsel.
- Provided training and developed corporate health and safety programs for more than thirty industrial facilities, environmental laboratories and/or engineering consulting firms.
- Performed a Job Safety Analysis (JSA) of more than 300 aerospace manufacturing processes in support of the company's existing and developing Industrial Health & Safety Program.
- Developed and managed a complex health and safety program for a multi-million dollar remediation project for the Department of Energy at Oak Ridge National Laboratory (ORNL) in Oak Ridge, Tennessee. The remedial and site safety program innovatively employed the use of remotely operated vehicles (i.e., submarines) to retrieve and decommission over 7000 containers of explosive, water-reactive and radiologically-contaminated materials.
- Developed and managed a health & safety/quality assurance-quality control (QA/QC) program for a study involving the assessment of 15 uncontrolled disposal sites at the Naval Air Weapons Station (NAWS) in China Lake, California. The studies evaluated the degree of environmental impact from chemical, biological and live ordnance wastes in the (typical) 115°F area climate.
- Contributed to the development of health and safety Standard Operating Procedures and training protocols currently used by each of the U.S. EPA FIT, Zone 1 offices.

Environmental Engineering

Provide, or have provided, forensic studies, environmental site assessments; remediation programs; environmental litigation support, and; regulatory compliance support and permitting.

- Developed and managed a multimillion-dollar burn dump remediation project for a client who was redeveloping a former Navy facility. Provided project management and oversight, data interpretation, training, and HASP development. The contaminants of concern include burn ash, lead, asbestos, PCBs, chlorinated and/or petroleum hydrocarbons.
- Managed multiple environmental assessments and mitigation programs of former

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agricultural properties. Many possessed impairment by the historic and legal application of pesticides and/or natural occurrence of arsenic. In all situations, the impairment was managed on-site by controlled burial of the impaired soils, resulting in no need for costly or wasteful removal, transport and treatment/disposal of the same.

- Provided technical support for an underground storage tank (UST) investigation at San Diego International Airport's (Lindbergh Field) tank farm. The project was performed for the local Port Authority and involved the in situ inspection of the interior of numerous fuel tanks throughout the fuel farm. This activity required the use of Level B PPE in confined space environments.
- Provided management of a million-dollar environmental design contract for Naval Public Works Center (PWC), San Diego, California. Services included the development of SPCC Plans, preparation of RCRA Part B permits, performance of cathodic protection evaluations and the design of TSD facilities.
- Planned and managed a multitude of UST investigations for the Department of Defense at MCB Camp Pendleton, North Island NAS and 32nd Street Naval Station, California. The results of each investigation were used to develop remediation specifications for MCON projects planned at each site. The remedial programs were subsequently implemented using fixed or unit-cost pricing structures dependent on the prepared specifications. Remediation technologies applied included controlled aeration, vapor extraction (VES), pump and treat, and dig and dispose. All of the projects were performed either on or under budget.
- Provided operations management of a multi-million dollar fuel recovery/remediation project at the fuel farm at Naval Air Station North Island (NASNI), California. Ground water at the site had been impaired by a 2-3 foot thick layer of fuel hydrocarbon, released from a multitude of concrete USTs on the base. The remediation technology applied to date included pump and treat.
- Provided Delivery Order management of a large-scale asbestos survey project at Naval Amphibious Base, Coronado for Southwest Division NAVFACENGCOM.
- Planned and managed an assessment and remediation project at Fire Fighting Training Areas at Pacific Missile Test Center (PMTC) in Point Mugu and CBC Port Hueneme, California, for the Western Division NAVFACENGCOM. The remedial programs were subsequently implemented using fixed or unit-cost pricing structures dependent on the prepared specifications. Remediation technologies applied included VES and dig and dispose. Each of the projects was performed under budget.
- Removed and performed an investigation of multiple USTs located on agricultural property owned by the Viejas Indian Reservation. The property is slated for Casino and Resort expansion.
- Performed a UST investigation at several commercial service stations. Determined MTBE impacts to beneficial-use ground water. Data used to initiate a ground water investigation and remediation plans.
- Provided environmental support and waste characterization services for engineering (i.e.,

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clean-out) projects performed within lead-impacted storm water basins throughout San Diego County.

- Provided technical and environmental management support for numerous engineering projects performed within lead-impacted areas along the highways of Orange County. Formulated a Lead Management Plan for the engineering/utility contractor providing the construction services for Caltrans.
- Provided environmental compliance support services to supplement an aerospace manufacturing company's environmental department. Products supported include the Hazardous Materials Business Plan, Storm Water Pollution Prevention (SWPP) Plan, Underground Storage Tank (UST) Program, Compliance Audit Program, etc.
- Providing environmental support to the owners of a property involved in litigation over the condemnation of the property by the local municipality acquisition.

ACADEMIC HISTORY

- University of Massachusetts, Amherst, Massachusetts, B.S., School of Environmental Science and Public Health, 1982
- Harvard School of Public Health, Boston, Massachusetts, Certificate of Risk Analysis in Environmental Health, 1985

PROFESSIONAL CERTIFICATIONS

- Certified Industrial Hygienist (CIH) No. 3987, American Board of Industrial Hygiene (ABIH), 1988; Recertified 1995, 2001, 2006, 2011, 2015
- Certified Safety Specialist/Executive (CSS/CSE), World Safety Organization (WSO), 1986 (inactive)
- AHERA-Certified Asbestos Inspector-California No. 855, U.S. EPA/UC Berkeley, 1989 (inactive)

PROFESSIONAL TRAINING

- Certificate in Professional Engineering Practice, ASFE/Institute for Professional Practice, 1990
  - Program Facilitator, 1991
- Professional "Loss Prevention" Training, ASFE, 1989
- Professional Management Training, Management Action Programs (MAP), 1990
- HazWOpER (29CFR 1910.120) Training, 1982; - Trainer, 1986-Present
- Guidelines for the Assessment of Microbiological Contamination, AIHA, 2002

PUBLICATIONS

- Fung M.D., F. Y., Young CIH, C. P., Mold-Associated Asthma, IAQ 2001, ASHRAE

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PROFESSIONAL AFFILIATION HISTORY

- American Industrial Hygiene Association (AIHA), Fairfax, VA
- American Academy of Industrial Hygiene (AAIH), Lansing, MI
- American Lung Association, San Diego and Imperial Counties, CA, Member-Board of Directors, 2002-2006, Board Chair 2006
- ASFE, Silver Spring, MD
  - "Loss Prevention Education" Committee (1990-1991)
- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
- Association for Environmental Health and Sciences (AEHS), Amherst, MA
- American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, OH
- Institute for Professional Practice (IPP), Silver Spring, MD
- Society of American Military Engineers (SAME), San Diego, CA
- American Indoor Air Quality Council

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SOIL MANAGEMENT PLAN

Otay Canyon Ranch/Lumina
Cactus Road, San Diego, California
Voluntary Assistance Program Case #DEH2014-LSAM-000254

April 7, 2017 (Revised May 19, 2017)

Presented to:
County of San Diego Department of Environmental Health
Site Assessment and Mitigation Division
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Soil Management Plan

Otay Canyon Ranch/Lumina
San Diego, California

C Young Associates has prepared this Soil Management Plan for the above referenced property, which is being submitted to the County of San Diego Department of Environmental Health for review, comment and approval. This plan was completed in accordance with the standards of care exercised by environmental professionals in the industry and under the technical direction of the undersigned.

Colin P. Young, CIH
Principal

5-19-2017

Date

Eric M. Cathcart, MS, PG
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5-19-2017

Date

Dan Weis, R.E.H.S.
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1.0 INTRODUCTION

On behalf of CR Otay Canyon Associates, C Young Associates (CYA) has prepared this Soil Management Plan (SMP) for the Otay Canyon Ranch site (hereinafter referred to as "the Lumina Site") for review by the County of San Diego Department of Environmental Health (DEH) Voluntary Assistance Program (VAP). This SMP is prepared in response to DEH's advisory letter of October 25, 2016, and presents a plan to manage organochlorine pesticide (OCP) impacted soils onsite and to segregate and export, as appropriate, general non-hazardous refuse and soil containing contaminants of concern other than OCPs from the Lumina Site. The Lumina Site is slated for mixed-use development and consists of 12 legal parcels, as follows:

County of San Diego APN	Property Name/Reference/ Prior Owner	Recorded Physical Address (Per Assessor Record)	Acreage
646-100-76	Jabir/Sesi	1902 Cactus Road	15.02
646-100-21	Kuta/Kay Mark	Cactus Road	9.99
646-100-17/18/20/38	Agustin Martinez/ Mascari	2160, 2240 Cactus Road	47.82
646-100-71	Maria Martinez	2440 Cactus Road	14.75
646-093-07/09-12	Watson	Cactus Road	4.55

The Lumina Site (as Otay Canyon Ranch) was enrolled into the DEH VAP in 2014 following completion of several parcel-specific environmental assessments. As indicated in the referenced October 25, 2016 letter from the DEH, the DEH concluded that adequate soil assessment has been completed and that the preparation of a SMP and Community Health and Safety Plan (CHSP) was appropriate.

This SMP has been prepared with reliance on assessments previously performed by others, as summarized in Section 1.2. It comprises a summary of the prior assessment findings, a conceptual development plan for the Lumina Site, and the management related steps that will be necessary to facilitate said development plans, including:

- Removal and onsite placement (burial) of topsoil containing residual concentrations of OCPs above human health risk based screening levels.
- Removal, profiling and disposal of waste debris and either disposal or reuse of soil containing contaminants of concern other than OCPs located at three known locations on the Lumina Site.
- Reassessment of areas where soil targeted for burial or offsite disposal has been removed.
- Documentation of all of the above.

The primary objective of this plan is to affirm the protection of human health during the proposed soil management activities and to provide that proper waste management procedures are implemented. Soil management will be conducted under the oversight

of the County of San Diego DEH via the VAP. At the completion of the soil management activities, CYA will submit a Site Closure Report and request concurrence from VAP regarding the soil management activities completed.

1.1 Project Location and Description

The Lumina Site comprises 92.13 acres located west of Cactus Road and south of Otay Mesa Road in San Diego, California. Figure 1 is a Vicinity Map of the Lumina Site and Figure 2 is a USGS Topographic Map of the Lumina Site. According to data obtained from the County of San Diego Tax Assessor, the Lumina Site comprises 12 legal parcels. The table below includes the Assessor's Parcel Numbers, recorded physical addresses (where applicable) and acreages for each of the parcels that comprise the Lumina Site.

County of San Diego APN	Property Name/Reference/ Prior Owner	Recorded Physical Address (Per Assessor Record)	Reported Acreage
646-100-76	Jabir/Sesi	1902 Cactus Road	15.02
646-100-21	Kuta/Kay Mark	Cactus Road	9.99
646-100-17/18/20/38	Agustin Martinez/ Mascari	2160, 2240 Cactus Road	47.82
646-100-71	Maria Martinez	2440 Cactus Road	14.75
646-093-07/09-12	Watson	Cactus Road	4.55

Prior and/or existing owners of the parcels are referenced, and the parcel boundaries are depicted on a map included in Appendix A.

The Lumina Site is located in an area comprising residential, commercial, industrial and agricultural land uses. Properties in proximity include single-family homes, farms/nurseries, ranches, warehouses and auto (junk) yards. The northern and northwestern boundaries of the property (i.e., the Jabir/Sesi parcel) slightly impose upon the southern perimeter of Spring Canyon, northern portions of which were used as the former Cactus Road/Tripp landfill and which reportedly accepted auto shredder and some burn debris. However, much of the Lumina Site, including all of the referenced parcels, was and is used for agricultural purposes (e.g., vegetable, wheat/dry farming) and is currently undeveloped and vacant land.

1.2 Regulatory Status and Previous Assessment Work

Prior to the opening of VAP Case# DEH2014-LSAM-000254 in 2014, there was a prior VAP case (H99064-001) for the Agustin Martinez portion of the Lumina Site that was closed with "*No Further Action*" indicated.

Several environmental assessments have been performed at the Lumina Site over recent years and for various entities, including:

- *Master Phase I Environmental Site Assessment, 118-Acre Property West of Cactus Road, South of Otay Mesa Road, San Diego, California* (i.e., generally encompassing all of the Lumina Site, and more) by Rincon Consultants, dated July 22, 2004;
- *Phase II Soil Sampling, Assessor's Parcel Number 646-100-76, 1902 Cactus Road, San Diego, California* (i.e., Jabir/Sesi parcel) by SCS Engineers, dated April 14, 2015;
- *Phase I and II Environmental Site Assessment, Kuta 10-Acre Property, APN #646-100-21, San Diego, California* by Rincon Consultants, dated February 25, 2004;
- *Phase I and II Environmental Site Assessment, 2160 Cactus Road, San Diego, California* (i.e., Agustin Martinez parcel) by Rincon Consultants, dated April 14, 2004;
- *Phase I and II Environmental Site Assessment, Mascari Property, 2240 Cactus Road, APN #646-100-38, San Diego, California* by Rincon Consultants, dated March 8, 2004.

According to the Rincon Assessment of July 22, 2004, the Lumina Site was not referenced in any Federal, State and local regulatory databases, suggesting no historical record of hazardous materials use or hazardous waste management on the Lumina Site. However, the report indicated that unauthorized releases had occurred at the former Cactus/Tripp Landfill (i.e., Spring Canyon) located to the north of the Lumina Site. This offsite landfill reportedly received burn ash and auto shredder waste, though much of the impact was reported in the northern portion of the canyon, not the portion directly adjacent to the northern boundary of the Lumina Site (i.e., the Jabir/Sesi parcels). With the exception of a likely history of pesticide application on the predominance of the Lumina Site that has been used for agricultural purposes, and the possibility of landfill waste encroachment along the northern perimeter of the Lumina Site, no other indicators of impact were indicated for the Lumina Site.

According to the SCS Assessment of April 14, 2015, elevated concentrations of OCPs were identified in topsoil (i.e., primarily the upper six inches of soil, with only a few elevated detections between six inches and three feet deep) across much of the cultivated portions of the Jabir/Sesi parcel. While the OCP concentrations were generally low and did not suggest the misuse, spillage or disposal of such compounds, they were randomly detected at concentrations that exceeded their respective U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) for residential soil. As the pesticides were legally applied, they were not considered an unauthorized application and the soil might only be considered a hazardous waste if it needs to be removed from the parcel and was more-formally characterized, as such. Accordingly, and consistent with many other developments in local agricultural areas, such soil can remain onsite, but should be placed in deeper fill areas during grading so that they cannot be reasonably encountered during finish development phases of the project (e.g., graded building pad surfaces, utility placements, etc.).

The SCS report also identified that a former reservoir (or land depression) of approximately 12 feet deep had existed near the center of the southern boundary of the

parcel and that it had likely been filled in the 1970s. Samples obtained from the fill revealed trash and debris and some stained soils. The results of sampling and analysis revealed some varying concentrations of petroleum hydrocarbons, lead and OCPs, and all are likely residual impacts of some of the debris discarded in the depression. This area of potential concern is depicted on Figure 3 (aerial photograph-based Site Plan).

Similar to the Rincon Assessment of July 22, 2004, the Rincon Assessment of February 25, 2004 of the Kuta parcel indicated that this portion of the Lumina Site was not referenced in any Federal, State and local regulatory databases, suggesting no historical record of hazardous materials use or hazardous waste management on the parcel. However, the report indicated the existence of household waste and general (non-hazardous) refuse along the embankments of the adjoining Spring Canyon to the north (and not related to the former Tripp landfill further to the north).

Similar to the SCS Assessment of April 14, 2015, the Rincon Assessment of February 25, 2004 also indicated the presence of OCPs in topsoil across much of the cultivated portions of the Kuta parcel. Again, as the pesticides were legally applied, they are not considered an unauthorized application and the soil might only be considered a hazardous waste if it needs to be removed from the property and was more-formally characterized, as such. Similarly, the concentrations of the compounds were generally low and did not suggest the misuse, spillage or disposal of the pesticides, but were detected at concentrations that exceeded their respective U.S. EPA RSLs for residential soil. Accordingly, and consistent with many other developments in local agricultural areas, such soil can remain onsite, but should be placed in deeper fill areas during grading so that they cannot be reasonably encountered during finish development phases of the project (e.g., graded building pad surfaces, utility placements, etc.).

According to the Rincon Assessment of April 14, 2004 relating to the Agustin Martinez parcel, OCPs also exist in topsoil across much of the cultivated portions of the parcel and the same conclusions referenced for the Kuta parcel were noted as applying to the Agustin Martinez parcels.

The assessment also revealed the presence of canyon fill and construction debris with some indicators of petroleum hydrocarbons and lead in the southwestern corner of the parcel. This area of potential concern is also depicted on Figure 3 (aerial photograph-based Site Plan). The fill was estimated to be approximately 25-30 feet deep. The debris would likely need to be removed and disposed as general refuse. The soil in the canyon fill would also need to be removed and reassessed relative to current waste classification standards to determine if it can be reused as fill material onsite or required disposal according to its reassessed profile.

The Rincon Assessment of March 8, 2004 relating to the Mascari parcel, revealed the presence of low-grade petroleum hydrocarbon impacts in proximity to the location of

two former ASTs and a hazardous materials storage area. As above, this area of potential concern is depicted on Figure 3 (aerial photograph-based Site Plan).

1.3 Conceptual Land Use Plan

A Conceptual Land Use Plan, as of July 14, 2016, is presented in Appendix B. It reveals plans for mixed-use areas, multi-family residential development, possible institutional development (i.e., school/recreation), parks, open space and new roadways. The plan could be modified in the future, but is generally accommodating the current Otay Mesa Community Plan.

2.0 SITE CONDITIONS

2.1 Topography

According to the U.S. Geological Survey topographic map for the Otay Mesa, California 7.5 minute quadrangle (1996), the Lumina Site is situated at an elevation of approximately 500 feet above mean sea level (msl) with a gradual north-northwesterly slope. Spring Canyon and associated tributaries exist at the northern perimeter of the Lumina Site, with steep slopes terminating at the canyon bottom at approximately 400 feet above msl. Extensions of Spring Canyon also exist to the west of the Lumina Site, with steep slopes terminating at the canyon bottom at approximately 300 feet above msl.

2.2 Geology

According to the Geologic Map of California-El Centro Sheet and multiple reports of environmental and geotechnical assessments performed at parcels comprising the Lumina Site (refer to the reports referenced in Section 1.2, the Lumina Site is underlain by Pleistocene marine and non-marine terrace deposits. Local geology is comprised of topsoil, some areas of artificial fill, alluvium, terrace deposits and the Otay Formation. The topsoil is generally comprised of stiff, moist to damp, dark brown sandy clay or silty sand. The alluvium is comprised of poorly consolidated clay, silt, sand and gravel. Upper terrace deposits are comprised of thick, stiff, moist, dark brown to olive silty or sandy clay with highly expansive characteristics. Lower terrace deposits are comprised of dense to very dense interbedded reddish brown sandy course gravel and gravelly sands with some silt and clay and interbedded massive cobble layers, which increase in size with depth. The Otay Formation consists of dense to very dense, light olive to gray-brown, interbedded clayey siltstones and silty fine-grained sandstones.

2.3 Hydrology/Hydrogeology

The Lumina Site is situated within the Otay or Tijuana Hydrologic Unit (SWRCB, 1994). Groundwater within this area has potential beneficial uses for municipal, agricultural and industrial supply purposes. The depth to static groundwater beneath the Lumina Site is estimated to be at least 200 feet below existing grades, and flows toward the southwest. There are no surface water bodies onsite.

3.0 SITE CONTAMINANTS AND DISTRIBUTION

As indicated in Section 1.2, OCPs have been nearly ubiquitously detected throughout the upper six inches of soil throughout the Lumina Site. Some random detections were reported between six inches and three feet below the surface, but too few to indicate significant impacts at those depths or at depths beyond three feet. Considering the planned residential use and possibly a school at portions of the Lumina Site, management (i.e. selective removal and burial) of the upper six inches to one foot of soil is considered to be prudent.

In regard to the Jabir/Sesi parcels, and aside from the above-referenced presence of OCPs in topsoil, it is not likely that the former Cactus/Tripp landfill to the north of the Lumina Site encroached upon the parcel/Site. However, it is known that a former 12 foot deep land depression along the center of the southern boundary of the parcel contains trash and debris and some stained soils with varying concentrations of petroleum hydrocarbons, lead and OCPs in the fill material. The debris will require removal and disposal as general refuse and the soil will need to be removed during grading and will be profiled when removed to qualify the prior in-situ data.

In regard to the Kuta parcel, aside from the presence of OCPs in topsoil, household waste and general non-hazardous refuse were observed to exist along the embankments of the adjoining Spring Canyon to the north (unrelated to the former Tripp landfill further to the north). Such debris will require removal and disposal as general refuse.

In regard to the Agustin Martinez/Mascari parcels, aside from the presence of OCPs in topsoil, canyon fill and construction debris with some indicators of petroleum hydrocarbons and lead exist in the southwestern corner of the parcel. The fill and debris has been estimated as being approximately 25 to 30 feet deep. The debris will require removal and disposal as general refuse and the soil will need to be removed during grading and will be profiled when removed to qualify the prior in-situ data. In addition, low-grade petroleum hydrocarbon impacts were identified in proximity to the location of two former ASTs and a hazardous materials storage area at the Mascari portion of this parcel.

No impacts have been reported for the Maria Martinez parcels.

4.0 PROPOSED SOIL MANAGEMENT

4.1 Re-Use of Soil Containing Legally Applied Pesticides

This section presents a conceptual plan for the re-use of soils containing OCPs at the Lumina Site. These soil management actions will be conducted in conjunction with Site grading activities and in a manner that will be protective of human health and the environment and in consideration of the intended post-grading land uses.

Soil management will involve the removal of OCP impacted soils above residential San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs) to a suitable depth to achieve mitigation objectives. The excavated soils will be placed as deeper fill into designated, DEH approved and non-school areas onsite. Confirmation soil samples will be collected from excavated areas to verify the effective removal of soils containing OCPs exceeding the residential ESLs. Once placed in deeper fill areas, the impacted soils will be overlain by soils that are deemed to be not impacted and generated from deeper "clean" cuts during Site grading. Additional details regarding the planned means and methods for the proper management of OCP impacted soil are further described in Sections 4.1.2 and 4.1.3 below.

4.1.1 Regulatory Input

The DEH will act as the lead regulatory agency for the soil mitigation activities to be completed at the Lumina Site. The mitigation approach proposed herein has been used at numerous former agricultural properties in San Diego County. Consistent with similar efforts, residential ESLs for OCPs will be used as the screening criteria for the Lumina Site.

4.1.2 Soil Relocation During Site Grading

Significant grading will be required at the Lumina Site to facilitate the planned development of the Lumina Site, including residential housing, mixed-use structures, parks, possibly a school site and various streets and roadways. Site grading will involve a combination of cuts and fills across the Lumina Site, resulting in nearly 500,000 cubic yards of soil being displaced. A tentative cut-fill plan is presented as in Appendix C.

The final Site grade will represent a significantly subdued relief relative to present conditions. The need to fill significant volumes of soil into low-lying areas during the grading process will provide an opportunity to re-use and strategically manage OCP impacted soils on the Lumina Site as part of a health- and environment-protective soil mitigation program for the Lumina Site.

Under the oversight of CYA environmental professionals working under the oversight of a California Professional Geologist, the selected grading contractor for the project will scrape the approximately upper six inches to one foot of soil throughout the

Lumina Site and stockpile such soil (as-needed) at various locations onsite or transfer the displaced topsoil directly to portion of the Lumina Site were the material will be buried at greater depths. If stockpiling of soil will occur, such soil will be covered with plastic sheeting until displaced again during use as fill material. The OCP impacted soil will be buried in areas at the Lumina Site that have a minimum separation from the underlying groundwater table of at least 10 feet. In addition, the OCP impacted soil will be buried in areas that are at least 10 vertical feet below the future pad elevations and/or at least five feet below the deepest utility to be installed in streets and roadways. Two likely areas where the OCP impacted soil will be buried include the northwest and southwest corners of the Lumina Site (anticipated park and open space areas), where removals and subsequent fills are on the order of 50 to 60 feet. Given the anticipated depth to groundwater beneath the Lumina Site of over 200 feet, CYA anticipates no issues with achieving the required separation from groundwater of OCP impacted soil referenced above.

The final locations to receive the OCP impacted soil will be determined at a later date and will be selected in collaboration with the Lumina Site owner, the project civil engineer and other members of the project team. Once the formal locations are selected, an addendum to this plan will be issued to the DEH for its review and concurrence. After the burial of OCP impacted soil is complete, the project surveyor will document the location of the buried material (top, bottom and lateral extent) and such data will be utilized to generate a graphical representation of the location of the burial area(s).

4.1.3 Post-Removal Confirmation Soil Sampling

When the removal of the upper six inches to one foot of OCP impacted soil is achieved in areas throughout the Lumina Site, confirmation soil sampling of the resultant surfaces will be conducted to confirm the effective removal of OCP impacted soil that exceeds the respective residential ESLs.

Confirmation soil samples will be collected from the new existing surfaces on a minimum of approximately four acre centers. However, a more conservative sampling criteria (as recognized by the California Department of Toxic Substances Control (DTSC)) will be applied in the area of the Lumina Site where a school may be proposed for construction. In addition, current plans for the Lumina Site indicate that the potential school location will be subject to filling operations to achieve finished pad grades. The soil required to bring the potential school pad area up to finished grade will be generated from other borrow locations within the Lumina Site boundary that require cuts (following the removal and burial of the OCP impacted soil). The more conservative sampling frequency used to confirm the adequate removal of OCPs below residential ESLs will also be utilized in such areas. The more conservative sampling criteria that will apply specifically to such borrow locations are defined in Section 4.1.4.

4.1.3.1 Soil Sample Collection

One surface soil sample (collected from 0 to 0.5 feet bgs) and one subsurface sample (collected at 1 to 1.5 feet bgs) will be collected from each confirmation sampling location. Since the original upper 0.5-1.0 feet of soil will have already been removed when these borings are installed, these samples will actually represent depths of 1.0-1.5 to 2.5-3 feet below the original ground surface.

4.1.3.2 Soil Sample Analysis

All of the surface confirmation soil samples will be analyzed for OCPs by U.S. EPA test Method 8018A. Subsurface soil samples collected in these areas will be held for possible OCP analysis, pending the outcome of the surface sampling results. The subsurface samples will only be analyzed if any OCPs in the surface sample at the same location are detected at concentrations exceeding applicable residential ESLs. In an unlikely instance where a surface soil sample contains one or more OCPs above a residential ESL and the corresponding subsurface sample does not contain elevated OCPs, step-out confirmation soil samples will be obtained from a reasonable distance around the confirmation soil sample in question in order to delineate the lateral extent of soil containing elevated OCPs. Upon receiving results of the additional sampling and analysis and the area of impact is laterally delineated, the grading contractor will be instructed to make an additional removal to a sufficient lateral extent (based on the step-out sample results) and vertical depth (depth of the non-impacted subsurface sample). In an even more so unlikely event that a subsurface sample contains one or more elevated OCPs, the grader will also be instructed to make additional vertical removals in approximately six inch to one foot increments until confirmation samples indicate suitable removals of OCP impacted soil. Any additional soil that is excavated during the lateral and vertical delineation efforts will be buried in the designated fill area(s). All locations of confirmation and step-out/step-down soil samples (if required) will be documented and incorporated in to graphical illustrations that will be included in the Lumina Site Closure Report for the project.

4.1.3.3 Quality Control

Quality Assurance/Quality Control (QA/QC) procedures specified in SW-846 will be followed in the analysis of confirmation soil samples for OCPs. A matrix spike/matrix spike duplicate on one soil sample per batch of samples will be performed to demonstrate that the targeted pesticide can be recovered from the soil. The laboratory data package will include a summary of the QA sample results: blanks, matrix spike/matrix spike duplicate, surrogate recoveries, laboratory control samples, etc., as specified by the method.

4.1.4 Screening of Fill Material from Borrow Locations for the Potential School Area

As stated previously, current plans for the Lumina Site indicate that the potential school location will be subject to filling operations to achieve finished pad grades, and a more

conservative sampling frequency used to confirm the adequate removal of OCPs below residential ESLs in the area where the school may be located in the future will be utilized. In addition, the soil required to bring the potential school pad area up to finished grade will be generated from other borrow locations within the Lumina Site boundary that require cuts (following the removal and burial of the OCP impacted soil). The more conservative sampling frequency used to confirm the adequate removal of OCPs below residential ESLs will also be utilized in such areas. The sampling frequency will be in accordance with DTSC's *Interim Guidance for Sampling Agricultural Fields for School Sites* (Second Revision) and will include the collect of confirmation soil samples on approximately two acre centers (half of the confirmation soil sample frequency proposed for other areas of the Lumina Site). One surface soil sample (collected from 0 to 0.5 feet bgs) and one subsurface sample (collected at 1 to 1.5 feet bgs) will be collected at each location and the protocol for data evaluation/analysis and provisions for additional step-out/step-down sampling, additional grading/removals and lateral/vertical delineation will be implemented in the same manner as that described in Section 4.1.3.2 above.

4.2 Excavated Soil and Debris

As indicated in Section 3, impacted soil and debris (i.e., general refuse) was identified in three areas located within the Jabir/Sesi, Kuta and Agustin Martinez parcels. In addition, low-grade petroleum hydrocarbon impacts were identified in proximity to the location of two former ASTs and a hazardous materials storage area at the Mascari portion of the Lumina Site. Due to the development plans and geotechnical requirements for the Lumina Site, these materials will need to be excavated and more-formally segregated, profiled and disposed or reused (if they meet re-use criteria negotiated with the DEH). Exact volumes of material in each area are currently unknown but will be determined and documented during the course of Site grading activities.

In regard to the 12 foot deep former reservoir/land depression at the Jabir/Sesi parcels, the fill was found to contain trash and debris and some stained soils with varying concentrations of petroleum hydrocarbons, lead and OCPs in the fill. Accordingly, the depression will be excavated and the soil and trash/debris will be segregated. The trash and debris will be either stockpiled or loaded directly onto trucks for disposal as what will likely be non-hazardous debris. The final profile of the debris will be based on an evaluation by the excavation contractor and the designated receiving facility. The soil that is generated during the debris removal will be placed on 16 millimeter plastic sheeting and the resulting stockpile sampled and initially analyzed for total petroleum hydrocarbons, Title 22 metals and OCPs in accordance with USEPA Methods 8015B, 6010B/7471A and 8081A, respectively. The number of samples collected and analyzed will depend on the resulting volume of soil generated, but will be in accordance with SW846 protocols and applicable landfill guidelines. The results of the analyses will be compared against Title 22 waste characterization criteria and other action levels for the

selected landfill facility or facilities and transported/disposed, accordingly. The designated landfill facility or facility may require additional laboratory analysis be completed on the samples depending on the permit structure for said facility or facilities. Such additional analytical testing may include but not be limited to the following:

- Volatile organic Compounds by EPA test Method 8260B
- Semi-volatile organic compounds by EPA test Method 8270C
- Polycyclic Aromatic Hydrocarbons by EPA test Method 8270C with Select Ion Monitoring
- Polychlorinated biphenyls by EPA test Method 8082
- Organophosphorous compounds by EPA test Method 8141
- Chlorinated herbicides by EPA test Method 8151
- Single element soluble metal – Soluble Threshold Limit Concentration (STLC)
- Single element soluble metal – Toxicity Characteristic Leaching Procedure (TCLP)
- STLC 17 metals
- TCLP 8 metals
- Soil pH by EPA test Method 9045
- 96-Hour Fathead Minnow Fish Bioassay

When removal of obvious trash and debris is completed in the former reservoir/land depression area, the removal action will cease and confirmation soil samples will be obtained at a reasonable sample frequency that will be relayed to the DEH at the time. The overall size of the excavation required to remove the debris will influence the number of bottom and sidewall soil samples that will be obtained, and the results of the confirmation soil sampling and analysis will drive the need to potential additional lateral or vertical excavation in this area. In the event that soil that is removed from the debris area is found to be suitable for reuse at a residential property, CYA will demonstrate such an opinion to the DEH and present the associated data. If the DEH concurs with an opinion by CYA that reuse of soil from the debris area is suitable for reuse onsite, the grading contractor would distribute such soil during grading in areas requiring fill material outside of the potential school location.

In regard to the Kuta parcel, the household waste and general (non-hazardous) refuse observed on the embankments of the adjoining Spring Canyon will be either manually or mechanically removed. No targeted soil excavation is anticipated at this parcel.

In regard to the canyon fill and construction debris identified at the Agustin Martinez parcels, some indicators of petroleum hydrocarbons and lead were identified in the fill material. In addition, the areas of minor petroleum hydrocarbon impacts identified at the Mascari portion of the parcels were noted as being mildly stained and/or odorous. Accordingly, the soil and debris will be excavated, segregated, profiled and managed in the same manner as the material referenced at the Jabir/Sesi parcel above.

4.3 Unexpected Discoveries During Site Mitigation

Following any discovery of an unexpected condition that requires modification to the methods and protocols described in this plan or are outside of the content of the planned amendments described previously in this plan that will be submitted, the DEH will be informed and plan amendments will be submitted for review and approval.

4.4 Record Keeping

4.4.1 Chain-Of-Custody and Sample Tracking

Chain-of-custody procedures will be followed to establish a written record of sample handling and movement between the Lumina Site and the analytical laboratories. All soil samples will be delivered to the analytical laboratories on ice to maintain the samples at a target temperature of 4°C +/- 2°C. The chain-of-custodies will contain the following information:

- Project Location;
- Sample identification number;
- Date and time of collection;
- Sample collector's printed name and signature;
- Sample matrix;
- Analyses requested, and;
- Signatures of individuals involved in the chain of possession.

4.4.2 Soil/Waste Tracking

All waste and soil that is transported off-Site will be tracked using appropriate manifesting protocol that will include non-hazardous waste manifests and potentially uniform hazardous waste manifests.

4.4.3 Field Reports

In order to provide complete documentation of the fieldwork activities, detailed records will be maintained by field personnel. At a minimum, these records will include the following information:

- Site name and address;
- Date;
- Name of field log recorder;
- Team members present on-Site and associated duties;
- Other persons on-Site (i.e. subcontractors, regulatory personnel, etc.);
- A brief summary of meeting(s) held at the Lumina Site;
- Weather conditions, and;
- Any other relevant information.

4.4.4 Equipment Decontamination

Any non-dedicated sampling equipment will be decontaminated between uses by washing with a non-phosphate detergent solution followed by successive rinses in tap and drinking water. Disposable field equipment will not be decontaminated but will be placed in to plastic trash bags for proper disposal.

4.5 Reporting

Following completion of the soil management activities proposed herein, CYA will prepare a Closure Report in accordance with the most current edition of the DEH Site Assessment and Mitigation Manual and submit it to DEH for review. The report will describe in detail the implementation of this SMP and items that will include, but are not limited to:

- Grading and soil segregation activities;
- Soil sampling and analysis;
- Analytical results, and;
- Documentation of the disposition of soil, clean or otherwise, that is selectively buried, redistributed or exported from the Lumina Site to appropriate receiving facilities.

The report will include plans that depict the locations of confirmation soil samples and will demonstrate that soil containing elevated concentrations of OCPs was adequately segregated and contained on-Site. The report will also demonstrate that debris and soil within said debris areas is also properly managed. Other supporting documentation to be included with the report will include copies of analytical laboratory reports/chain-of-custody documentation and copies of any waste manifests pertaining to material exported from the Lumina Site. The Closure Report will request a no further action determination for the Lumina Site and will be signed by a State of California licensed Professional Geologist. In addition, all work requiring geologic interpretation for this project will be completed under the oversight of a State of California licensed Professional Geologist.

4.6 Community Health & Safety

In the event that waste material must be exported from the Lumina Site, community health and safety will be secured through implementation of a Community Health and Safety Plan (CHSP). A CHSP is presented in Appendix D and will be modified once it is determined that exporting of waste will be needed, and to reflect the actual profile of the waste to be exported.

5.0 REFERENCES

California State Water Resources Control Board, Water Quality Control Plan for the San Diego Basin (9), San Diego, California, Published 2002;

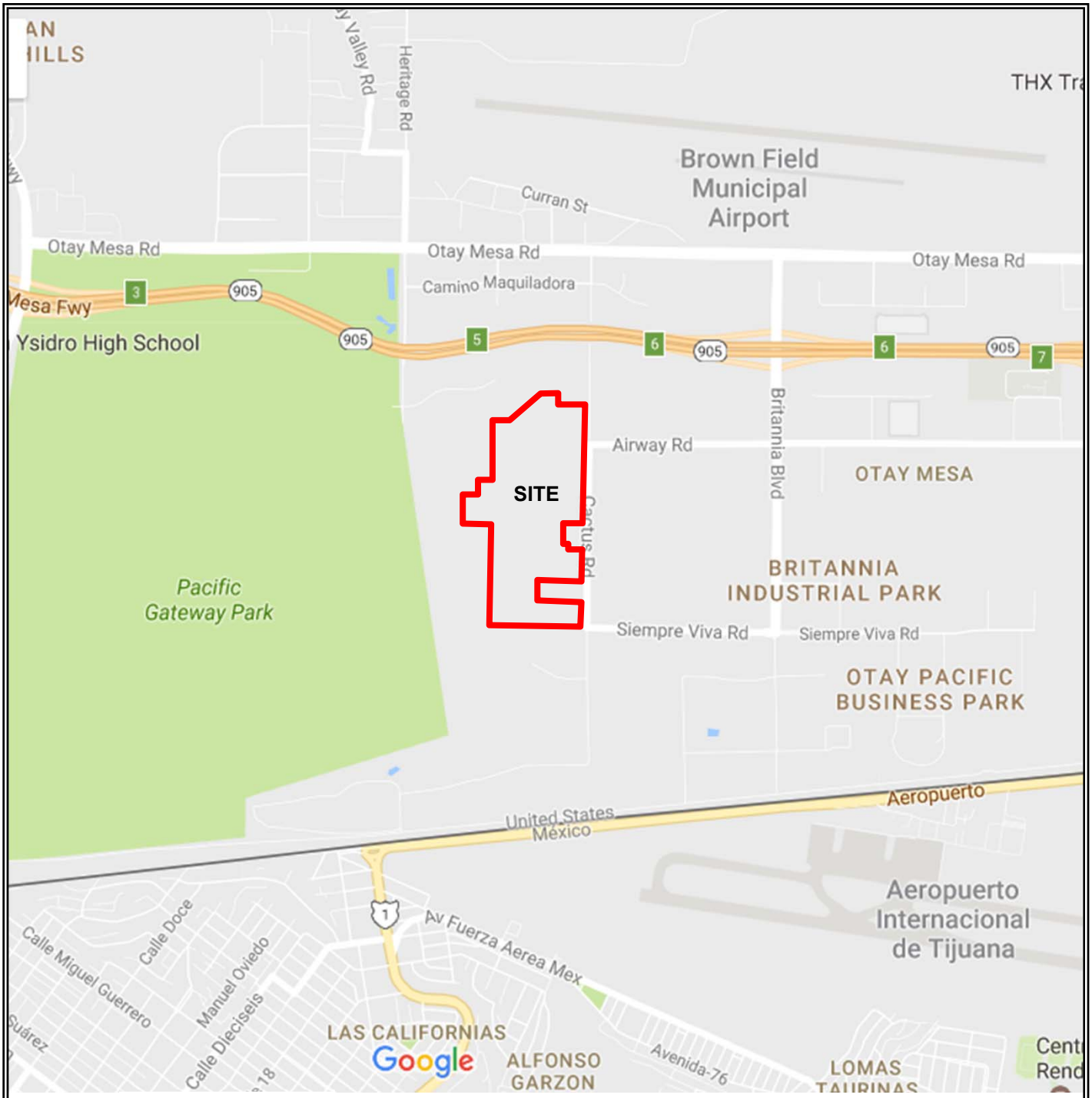
User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), San Francisco Bay Regional Water Quality Control Board, Interim Final 2016;

County of San Diego Department of Environmental Health, Site Assessment and Mitigation Manual (2004);

County of San Diego Department of Environmental Health (October 25, 2016), Voluntary Assistance Program #DEH2014-LSAM-000254 Response Letter, Otay Canyon Ranch, Cactus Road, San Diego, California;

USGS Topographic Map, Otay Mesa, California 7.5-Minute Quadrangle (1996)

FIGURES



0 1000 2000

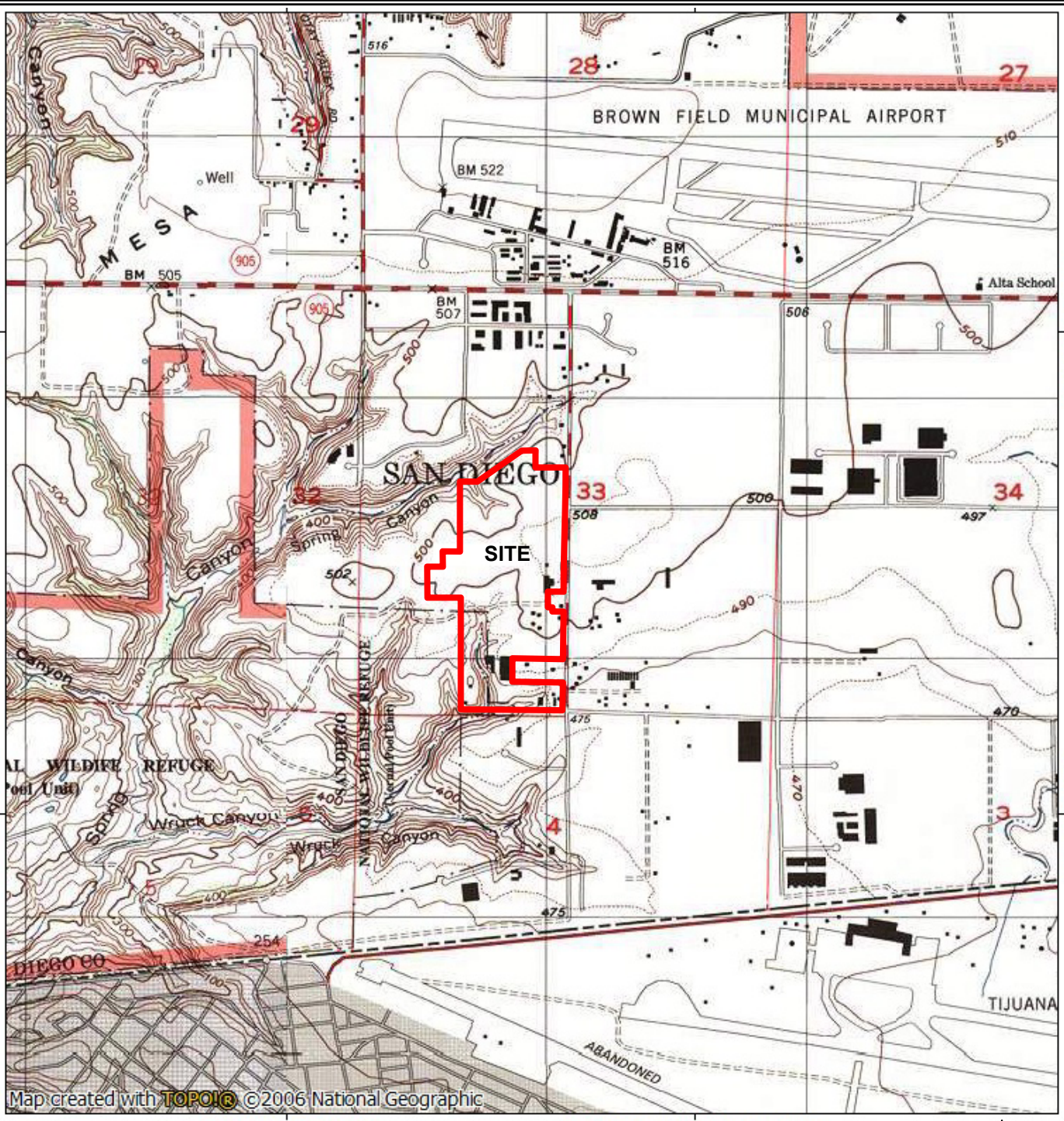
Approximate Scale in Feet

N

C YOUNG ASSOCIATES

C Young Associates
1042 Skylark Drive
La Jolla, CA 92037

Figure 1
Vicinity Map
Otay Canyon Ranch
San Diego, California



117°00.000' W WGS84 116°59.000' W

0 .5 1 MILES

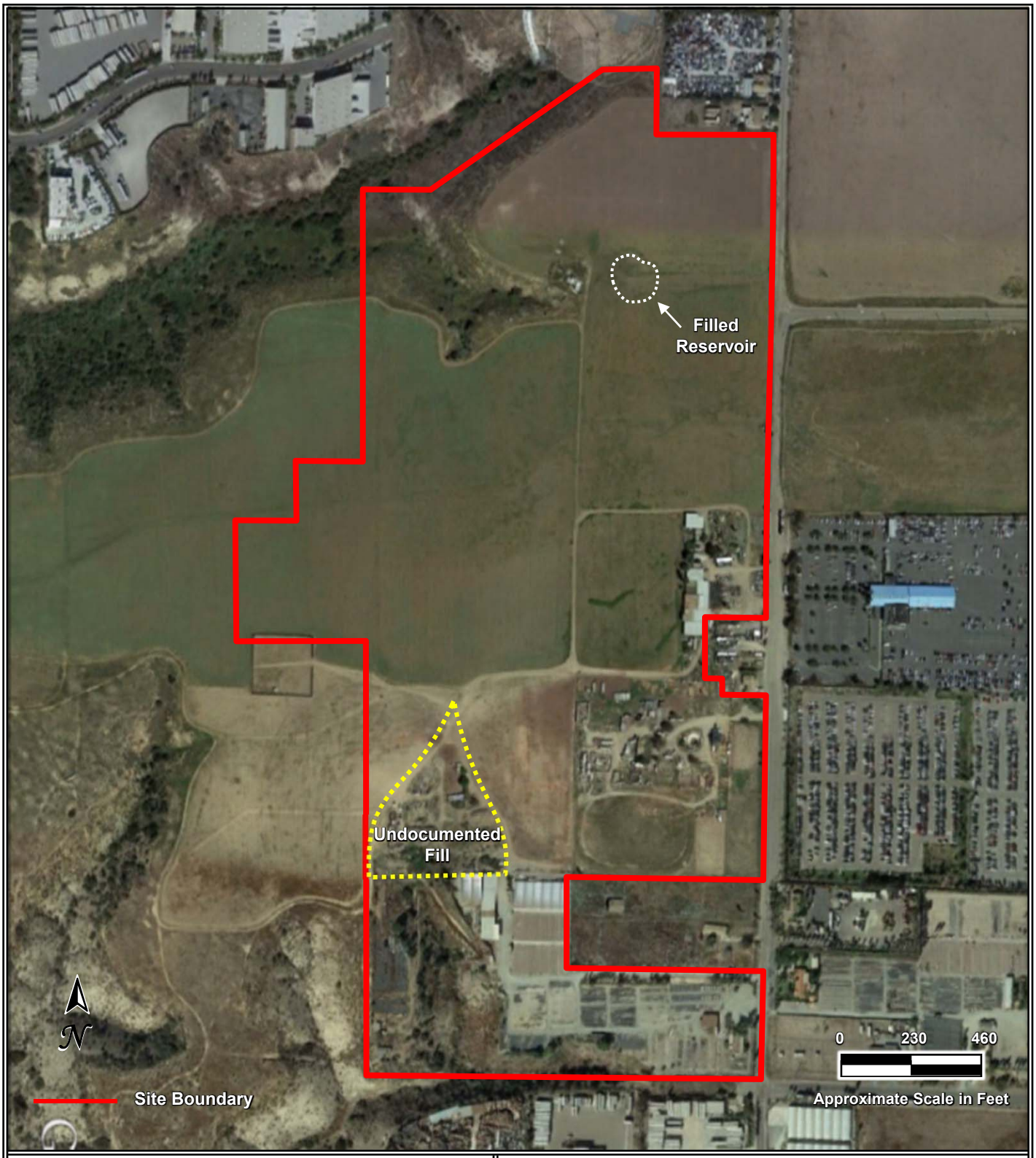
N

USGS Topographic Quadrangle Map
Otay Mesa, CA (2000)

C YOUNG CY A ASSOCIATES

C Young Associates
1042 Skylark Drive
La Jolla, CA 92037

Figure 2
Topographic Map
Otay Canyon Ranch
San Diego, California



C YOUNG
CY
A
ASSOCIATES

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La Jolla, CA 92037

Figure 3
Site Plan
Otay Canyon Ranch
San Diego, California

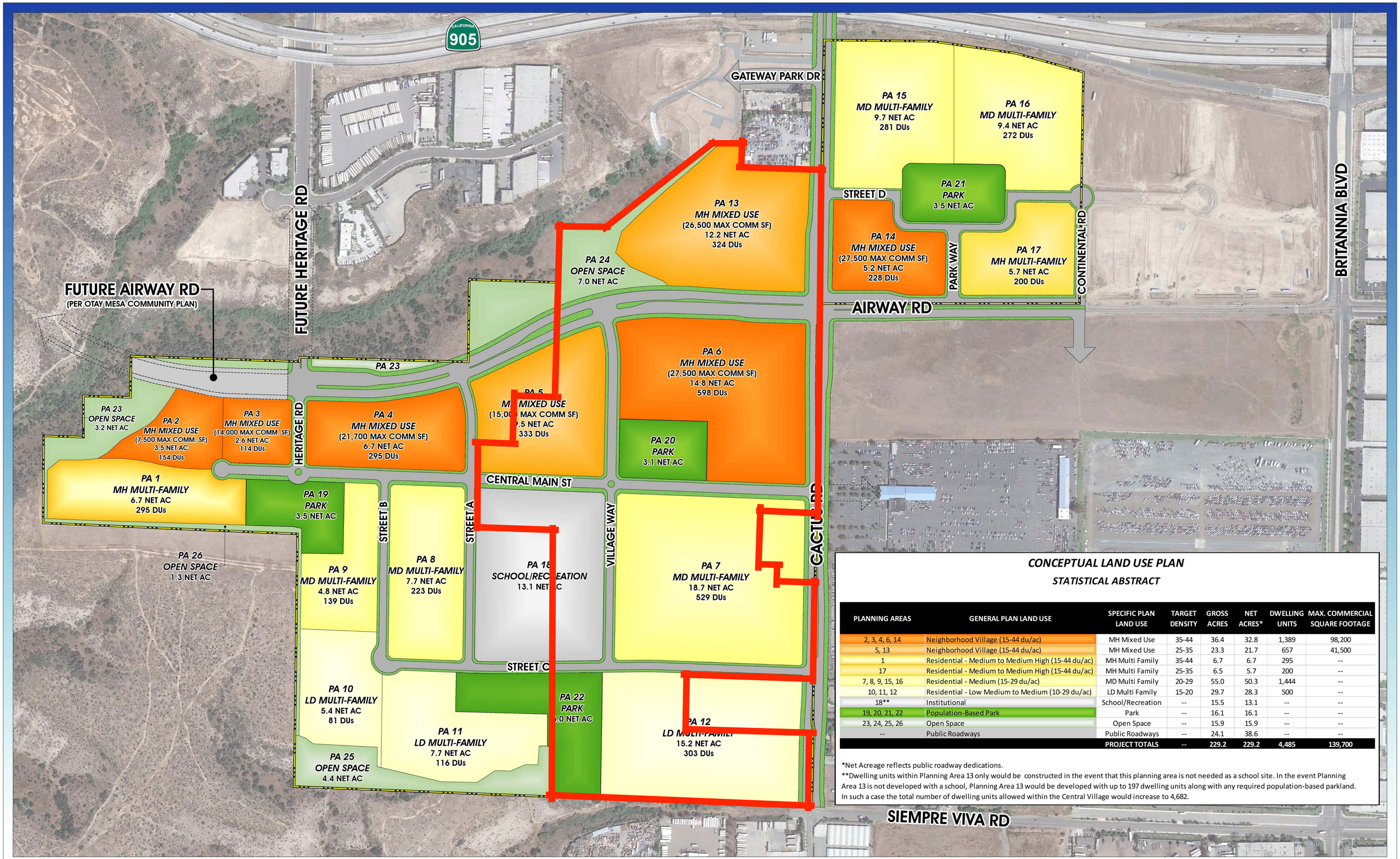
APPENDICES

APPENDIX A – OWNERSHIP EXHIBIT

ColRich Property

Davisson Property

APPENDIX B – CONCEPTUAL LAND USE PLAN



CONCEPTUAL LAND USE PLAN

STATISTICAL ABSTRACT

PLANNING AREAS	GENERAL PLAN LAND USE	SPECIFIC PLAN LAND USE	TARGET DENSITY	GROSS ACRES	NET ACRES*	DWELLING UNITS	MAX. COMMERCIAL SQUARE FOOTAGE
2, 3, 4, 6, 14	Neighborhood Village (15-44 du/ac)	MH Mixed Use	35-44	36.4	32.8	1,389	98,200
5, 13	Neighborhood Village (15-44 du/ac)	MH Mixed Use	25-35	23.3	21.7	657	41,500
1	Residential - Medium to Medium High (15-44 du/ac)	MH Multi Family	35-44	6.7	6.7	295	--
17	Residential - Medium to Medium High (15-44 du/ac)	MH Multi Family	25-35	6.5	5.7	200	--
7, 8, 9, 15, 16	Residential - Medium (15-29 du/ac)	MD Multi Family	20-29	55.0	50.3	1,444	--
10, 11, 12	Residential - Low Medium to Medium (10-29 du/ac)	LD Multi Family	15-20	29.7	28.3	500	--
18**	Institutional	School/Recreation	--	15.5	13.1	--	--
19, 20, 21, 22	Population-Based Park	Park	--	16.1	16.1	--	--
23, 24, 25, 26	Open Space	Open Space	--	15.9	15.9	--	--
--	Public Roadways	Public Roadways	--	24.1	38.6	--	--
		PROJECT TOTALS	--	229.2	229.2	4,485	139,700

*Net Acreage reflects public roadway dedications.

**Dwelling units within Planning Area 13 only would be constructed in the event that this planning area is not needed as a school site. In the event Planning Area 13 is not developed with a school, Planning Area 13 would be developed with up to 197 dwelling units along with any required population-based parkland. In such a case the total number of dwelling units allowed within the Central Village would increase to 4,682.

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ARCHITECTURE | PLANNING

0 100 200 400 Feet

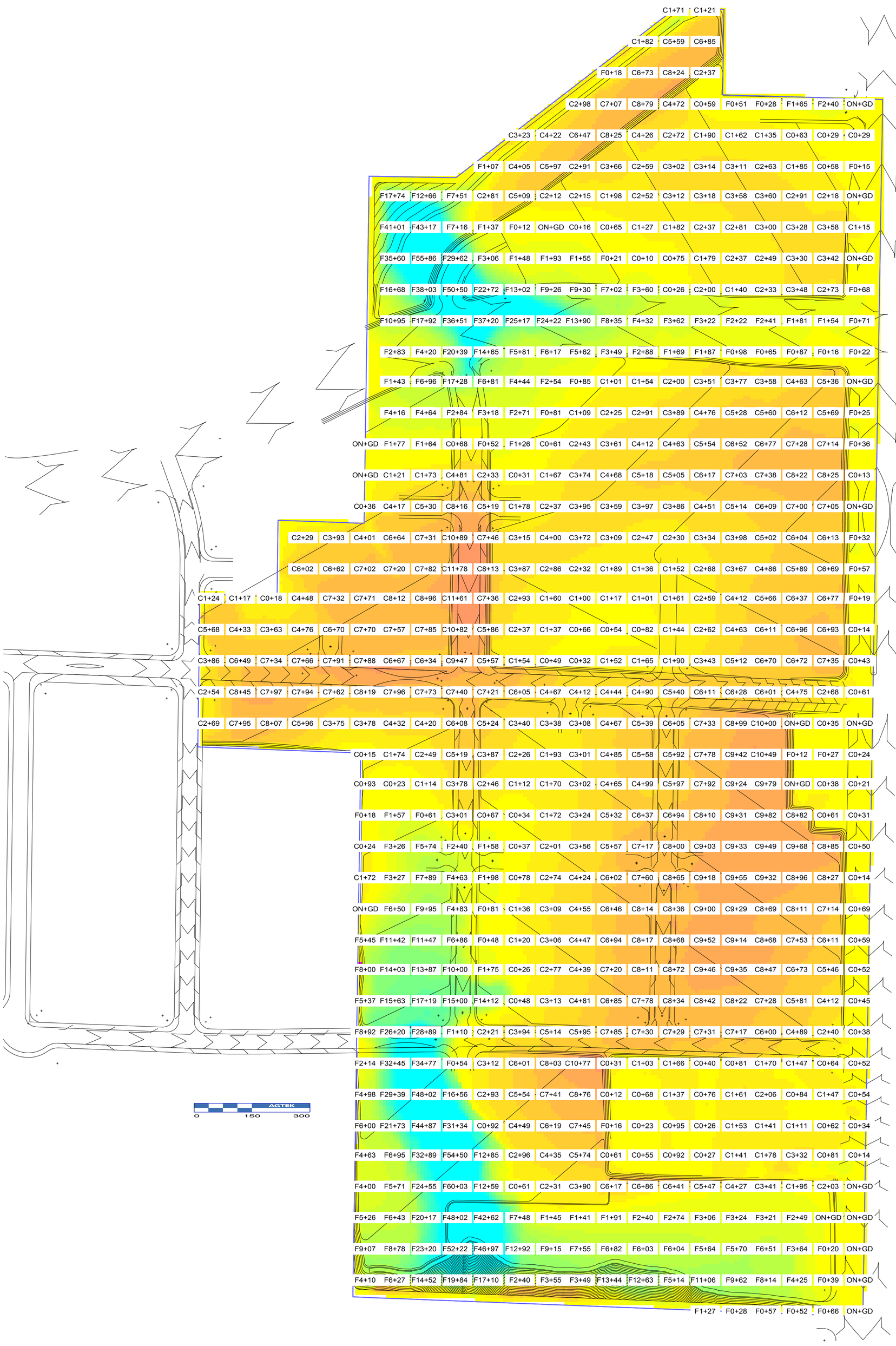
DATE: 07.14.16

CONCEPTUAL LAND USE PLAN

CENTRAL VILLAGE SPECIFIC PLAN

APPENDIX C – CUT-FILL PLAN

OCR Phase 1-Colrich



Job: OCR Phase 1
Units: Ft-CY
Tue Mar 22, 2016 13:42:46 Page 1

Volume Report
Design vs. Existing

	Area				Volume		Comp/Ratio		Compact		Export	Change
	Total	Cut	Fill	OnGrade	Cut	Fill	Cut	Fill	Cut	Fill	-Import	Per .1 Ft
Job Site	4,334,106	2,942,286	1,259,703	132,117	484,337	479,523	1.00	1.00	484,337	479,523	4,814	16,052

APPENDIX D – COMMUNITY HEALTH AND SAFETY PLAN

COMMUNITY HEALTH AND SAFETY PLAN

Otay Canyon Ranch
Cactus Road, San Diego, California

Project Description

The Site comprises 92.13 acres located west of Cactus Road and south of Otay Mesa Road in San Diego, California. The Site comprises 12 legal parcels, including the following:

County of San Diego APN	Property Name/Reference/ Prior Owner	Recorded Physical Address (Per Assessor Record)	Reported Acreage
646-100-76	Jabir/Sesi	1902 Cactus Road	15.02
646-100-21	Kuta/Kay Mark	Cactus Road	9.99
646-100-17/18/20/38	Agustin Martinez/ Mascari	2160, 2240 Cactus Road	47.82
646-100-71	Maria Martinez	2440 Cactus Road	14.75
646-093-07/09-12	Watson	Cactus Road	4.55

The site is located in an area comprising residential, commercial, industrial and agricultural land uses. Properties in proximity include single-family homes, farms/nurseries, ranches, warehouses and auto (junk) yards. The northern and northwestern boundaries of the property (i.e., the Jabir/Sesi parcel) slightly impose upon the southern perimeter of Spring Canyon, northern portions of which were used as the former Cactus Road/Tripp landfill which reportedly accepted auto shredder and some burn debris. However, much of the site, including all of the referenced parcels, was and is used for agricultural purposes (e.g., vegetable, wheat/dry farming) and is currently undeveloped and vacant land.

This CHSP is included as an appendix to the Soil Management Plan for the project. The primary objective of the Soil Management Plan is to affirm the protection of human health during the proposed soil management activities. Soil management will be conducted under the oversight of the County of San Diego Department of Environmental Health (DEH) via the Voluntary Assistance Program (VAP). At the completion of the soil management activities, CYA will submit a Site Closure Report and request concurrence from DEH regarding the soil management activities completed.

The objective of this CHSP is to assist in providing adequate protection of human and public health during the planned grading activities at the Site and implementation of the Soil Management Plan. This plan is not a worker health and safety plan and it

should not be used for such a purpose. Worker health and safety plans will be drafted by the respective work parties involved with the project and implemented by said parties.

Evaluation of Potential Public Exposure to Hazards

Potential public health hazards and exposure pathways resulting from Site activities may result from exposure to dust, noise, and physical hazards. Vapors resulting from petroleum hydrocarbons and associated volatile organic compounds (VOCs) are not considered to be potential concerns at the Site or conditions that will be encountered during grading activities. Potential exposure to organochlorine pesticide (OCP) impacted dust is the only reasonable potential exposure of concern, albeit minimal. Inhalation of ambient dust is the exposure route of primary concern. In a lesser capacity, these substances may also enter the unprotected body by skin absorption, eye contact, and/or inadvertent ingestion.

Chemical exposures are generally divided into two categories: acute and chronic. Symptoms resulting from an acute exposure usually occur during or shortly after exposure to a sufficiently high concentration. Symptoms resulting from a chronic exposure generally occur following prolonged or repeated exposures to lower concentrations. The concentrations required to produce symptoms of exposure depend upon the medium in which the compounds occur, the duration of exposure, and the number of exposures. Generally, symptoms resulting from an exposure to pesticide impacted dusts include, but are not limited to, irritation of mucous membranes and pharynx, nasal perforation, irritation of the eyes and/or skin.

Potential physical hazards to the public associated with soil excavation include explosion, fire, electrical shock, and noise exposure.

- **Explosions and fires** often arise spontaneously. However, they more commonly result from activities where an ignition source (such as a spark from equipment) is introduced to an explosive or flammable environment. Workers will use spark resistant equipment and tools (when feasible), and fire extinguishers will be made available during the Site activities to assist in preventing such a situation.
- **Electrical hazards** include buried cables that pose a danger of shock or electrocution if workers or equipment contact or sever them during Site operations. In accordance with State law, Underground Service Alert (USA) will be notified at least 48 hours prior to any excavation activities. A private utility locating company will also likely be retained by the contractor or Site owner as part of the development activities.
- **Noise hazards** can be created by equipment that generates noise in excess of auditory capacity thresholds. Noise in excess human auditory thresholds can result in physical damage to the ear.

Control Methods

- **Site Security**. To assist in excluding the public from the Site, a chain-linked fence will be constructed around the perimeter of the Site. Access gates (locations yet to be determined) will be installed along the Site perimeter as well. Gates will be locked after hours, closed during construction activities, and opened when construction or employee vehicles or equipment enter or exit the project area.
- **Vapors**. In the unlikely event that unforeseen petroleum hydrocarbon impacted soil that is emitting VOC vapors, engineering and construction practices will be used to reduce vapor emissions including covering off-gassing excavations or stockpiles, misting excavations or stockpiles with water or other vapor suppressing agents, locating stockpiles away from and/or downwind of public receptors, and stopping work until mitigation measures are in place.
- **Dust Control**. Dust control methods will be taken to minimize potential public exposure to dust generated as a result of the planned excavation activities. Dust suppression measures to be employed include, covering stockpiled soil with plastic sheeting, reducing the pace of the excavation as required until effective mitigation measures are in place, and/or maintaining levels of soil moisture by means of continuous moistening. There will be a zero dust policy in affect for the project during any and all earthwork activities.
- **Noise**. Noise levels are not expected to exceed the maximum allowable levels for the area. Work hours will be limited to between 7 a.m. and 5 p.m., Monday through Saturday.
- **Open Excavations**. Open excavations will be secured from public access by placing barricades or pylons at the perimeter of the excavations and locking access gates to the Site at the conclusion of each day's field activities. In accordance with 29 CFR 1926.652, the walls and faces of any excavations and trenches over 4-feet deep will be guarded by a shoring system, sloping of the ground, or some other equivalent means, such as trench boxes, shields, or other approved movable shoring systems. Trenches less than four feet deep where hazardous ground movement is likely will also require protection. Any area to be subjected to excavation will be secured with fencing. The fence will be placed at such a distance from the excavation so as to inhibit viewing in the excavation, and thus reduce the potential for public and transient curiosity. A competent person will make daily inspections of trenches and excavations to assure adequate slopes, shoring, and bracing, and to check for evidence of potential slides or cave-ins. More frequent inspections may be necessary after a rain event.
- **Stockpiled Soil**. Any stockpiled soil will be covered with plastic sheeting to reduce the potential for runoff.
- **BMPs**. Stockpiles will be protected from storm water run-on by fiber rolls,

gravel bags, or other appropriate methods. Soil stockpiles will be protected from wind erosion by application of water and by placing on and covering with plastic sheeting.

Air Monitoring

Being that concentrations of OCPs in Site soil are considered to be low and below CHHSL-R screening levels, CYA does not propose conducting dust monitoring utilizing field instruments during the course of the project. There is expected to be a zero dust policy for the project in place and soil will be continuously moistened to minimize dust generated during the earthwork activities. CYA field staff will inform the contractor to increase wetting other dust control measures if any visible dust is observed during the grading activities.

In the unlikely event that VOC impacted soils are encountered at the Site during the excavation activities, air monitoring will be performed utilizing a hand-held photoionization detector (PID) to assess potential levels of organic vapors possibly resulting from diesel/gasoline vapors releasing from excavated soil. Fugitive organic chemical vapors would be monitored along in the vicinity of the excavation perimeter at 15-minute intervals throughout each workday in which excavation activities occur. A reading of 10 parts per million or greater on a PID at the down-wind perimeter would initiate taking corrective measures. The PID would be calibrated in accordance with

Site Safety Manager

The designated Site Safety Manager for the contractor will be determined at a later date. The Site Safety Manager will have the knowledge and authority necessary to cease any and all construction activities at the Site in the event of an emergency. The Site Safety Manager will work in conjunction with CYA representatives regarding soil contamination hazards. In the event of a sudden release of a substance that represents an imminent threat to public health, the Site Safety Manager will initiate the cessation of activity contributing to such a release and notify the DEH.

The primary CYA project representatives are as follows:

- Project Manager/Cell No.: Colin Young, CIH (858) 945-7029
- Asst. Project Manager/Cell No.: Daniel Weis (760) 275-9229
- Site Safety Manager /Cell No.: Colin Young, CIH (858) 945-7029

Emergency Planning

If a community emergency situation arises, the Site Safety Manager will immediately coordinate the appropriate emergency response with other on-Site personnel and the

developer, as well as the County of San Diego DEH.

Worker Health and Safety

As stated previously, the designated Site Safety Manager for the contractor will be determined at a later date. The Site Safety Manager will coordinate with project representatives to ensure that their workers involved with the displacement and/or handling of contaminated soil are properly trained to conduct such activities. Worker health and safety guidelines or procedures specified by the developer and/or contractors will be monitored by the Site Safety Manager and contractor foreman and include, but are not limited to:

- Establishment of work zone controls
- Conducting health and safety meetings
- Use of proper personal protective equipment
- Personal hygiene guidelines
- Equipment decontamination procedures
- Medical surveillance as required
- Emergency response procedures

Site Traffic Control

Ingress and egress points for trucks that will transport impacted soil will be determined at a later date. The excavation contractor will be required to provide adequate traffic control (including flag persons) throughout the excavation activities. Prior to the off-Site transport of soil, the excavation contractor will be responsible for the inspection of each truckload to ensure that they are adequately covered and properly manifested. Trucks leave the Site, they will be assisted by the flag persons to ensure safe merging in to oncoming traffic.

Stormwater Management

A City of San Diego-approved stormwater pollution prevention plan (SWPPP) for the Site will be in place and will be implemented during grading activities. All appropriate BMPs as described in the SWPPP will be implemented during the grading work described in this plan. The SWPPP will be implemented during construction to ensure compliance with City of San Diego requirements and also for the protection of public health and safety.

Great care will be taken via the implementation of the SWPPP to minimize soil or sediment leaving the Site that is not loaded on trucks for off-Site delivery to other locations. The goal will be to have no pesticide impacted soil present on adjacent

streets/roadways as a result of the soil management and construction activities. The contractor will be responsible for ensuring that trucks are cleaned of overburden soil that may be present on trucks and other vehicles. In addition, stabilized construction entrances consisting of shaker plates and gravel will be present at ingress and egress points of the Site and gravel and/or sand bags, straw wattle and other appropriate BMPs will be placed along the Site perimeter. On-going street sweeping will also be conducted during any grading activities.

Public Notification

Public Notification of onsite grading, mitigation and soil/waste management activities will be made as part of the Environmental Impact Report (EIR) submittal and public review process under the purview of the City of San Diego Development Services requirements.